

Antibody that prevents the COVID-19 virus from infecting living cells is identified by scientists - in a major step towards developing an effective treatment

- Antibody found to block infection by the novel coronavirus SARS-CoV-2 in cells
- The '47D11' antibody targets the 'spike protein' of the destructive coronavirus
- It could alter the 'course of infection' or protect an uninfected person exposed
- [Here's how to help people impacted by Covid-19](#)

By [JONATHAN CHADWICK FOR MAILONLINE](#)

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Scientists say they've discovered an antibody that blocks infection by SARS-CoV-2, the **coronavirus** behind the current global health crisis.

The antibody, known as 47D11, targets the deadly virus's infamous 'spike protein', which it uses to hook onto cells and insert its genetic material.

Tests in mice cells showed that 47D11 binds to this protein and prevents it from hooking on – effectively neutralising it.

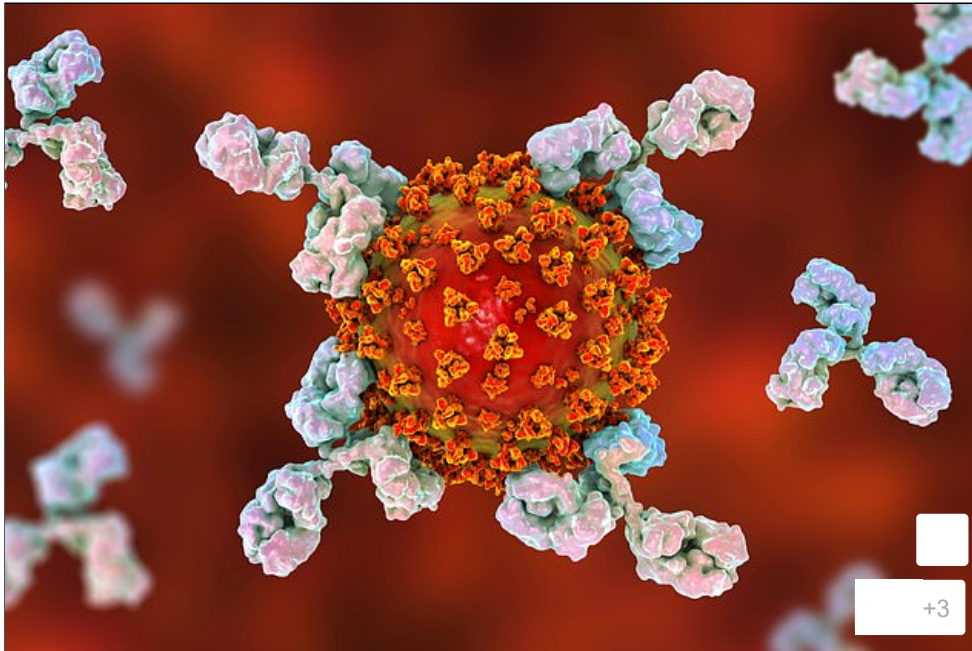
The breakthrough offers hope of a treatment for the respiratory disease COVID-19, which has killed more than 235,000 people to date.

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Researchers said the antibody, if injected into humans, could alter the 'course of infection' or protect an uninfected person exposed to someone with the virus.



Conceptual illustration for COVID-19 treatment, diagnosis and prevention showing antibodies attacking SARS-CoV-2 virus

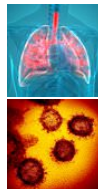
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The European research team identified the antibody from 51 cell lines from mice that had been engineered to carry human genes.

The antibody targets the novel coronavirus that caused the 2003 SARS outbreak, known as SARS-CoV-1.

However, scientists claim that it can also neutralise SARS-CoV-2, which is from the same family of coronaviruses as SARS-CoV-1.

'This research builds on the work our groups have done in the past on antibodies targeting the SARS-CoV that emerged in 2002/2003,' said co-lead author Professor Berend-Jan Bosch at Utrecht University.

'Using this collection of SARS-CoV antibodies, we identified an antibody that also neutralises infection of SARS-CoV-2 in cultured cells.

'Such a neutralising antibody has potential to alter the course of infection in the infected host, support virus clearance or protect an uninfected individual that is exposed to the virus.'

Dr Bosch added that the antibody's ability to neutralise both strains of SARS-CoV suggests that it may have potential

ANTIBODIES ARE PRODUCED BY WHITE BLOOD CELLS

Antibody, also called immunoglobulin, is a protective protein produced by the immune system.

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in mitigation of diseases caused by future emerging coronaviruses.

SARS-CoV-2, which is responsible for the illness known as COVID-19, is spread through small respiratory droplets from sneezing or coughing.

The virus hooks onto a locking point on human cells to insert its genetic material, makes multiples copies of itself and spreads throughout the body.

In the lab, researchers injected mouse cells with a variety of 'spike proteins' of various coronaviruses, including SARS and MERS.

The team then isolated 51 neutralising antibodies produced by the mouse cells that target the spike protein – one of which, 47D11, could prevent infection of cells with SARS-CoV-1.

The successful antibody, 47D11, binds to an enzyme called ACE2 – which is also present in SARS-CoV-2 – and acts as the virus's 'doorway' to human cells.

'The researchers in this study have developed an antibody that binds to the spike and blocks virus entry into cells,' said Dr Simon Clarke, professor of Cellular Microbiology at University of Reading, who wasn't involved in the study.

'Antibodies like this can be made in the lab instead of purified from people's blood and could conceivably be used as a treatment for disease, but this has not yet been demonstrated.

'While it's an interesting development, injecting people with antibodies is not without risk and it would need to undergo proper clinical trials.'

Antibodies recognise and latch onto antigens - foreign substances - in order to remove them from the body.

Molecules on the surface of the antigen differ from those found in the body, allowing the immune system to recognise it as foreign.

Antibodies are produced by specialised white blood cells called B lymphocytes (or B cells).

When an antigen binds to the B-cell surface, it stimulates the B cell to divide and mature into a group of identical cells called a clone.

The mature B cells, called plasma cells, secrete millions of antibodies into the bloodstream and lymphatic system.

As antibodies circulate, they attack and neutralize antigens that are identical to the one that triggered the immune response.

Source: Encyclopedia Britannica



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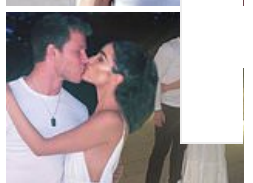
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A CDC illustration (pictured) shows morphology exhibited by coronaviruses. The virus is named for the protein spikes that give the appearance of a surrounding corona

Although researchers injected mice cells with spike proteins of coronaviruses that cause SARS, MERS and the common cold, they were not injected with SARS-CoV2, the cause of COVID-19.

The research was also conducted in cells outside the animal – known as 'in vitro' – rather than in a live organism – known as 'in vivo'.

'There are several animal models of COVID-19 infection and without having results from any in vivo studies, it is not possible to conclude that the product will be effective in vivo in humans,' said Dr Penny Ward, Visiting Professor in Pharmaceutical Medicine at Kings College London.

'This potential would be greatly enhanced if antiviral effect was observed in an animal model.'



Natural antibodies are large Y-shaped proteins, illustrated above, that patrol the body looking for disease

High concentrations of the antibody may also be required to be effective in vivo.

The antibody was generated using US-based biotechnology company Harbour BioMed's H2L2 transgenic mouse technology.

'Much more work is needed to assess whether this antibody can protect or reduce the severity of disease in humans,' said Dr Jingsong Wang, founder and CEO of Harbour BioMed.

'We expect to advance development of the antibody with partners.

'We believe our technology can contribute to addressing this most urgent public health need and we are pursuing several other research avenues.'

The discovery has been published online in [Nature Communications](#).

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The 25-year-old Hot Girl Summer rapper is managed by RocNation, which is run by the 38-year-old Grammy winner's husband Jay-Z

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am heartbroken and devastated beyond belief

She paid tribute with photos

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▶ party, then HUGS and presents him with a 'COVID-19 cake'

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They have been together for 37 years

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Took a break from quarantining

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Chat with a female fan was derailed

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The acting couple have been together since 2012

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The 35-year-old pop star dressed up

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Ireland followed it up

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Recently celebrated her 45th birthday

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After taking his son out for his first public steps

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Jason relished some time away from the family

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Would have been first shows in nine years

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▶ wear for Netflix's Hollywood

▶ Lili Reinhart glows in sheer blush gown as she poses in a California poppy field
It appeared to channel photo boyfriend Cole Sprouse, 27, took of her

▶ Lisa Rinna busts out her best dance moves in an Après Corona shirt as she confides 'Can't wait for this to end'

▶ Zoey Deschanel and Jonathan Scott look loved up as they announce a family-friendly game night with their fans

▶ Julie Bowen sports her signature straw hat as she heads out for a hike with her three sons in Los Angeles
Spotted enjoying a hike with her three sons

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She has been enduring lockdown at home with her three kids

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Finding ways to give back to her local police station

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Made the most of the sunny day

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The 33-year-old singer has confirmed her decision



▶ The Instagram star

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The Riverdale star

▶ **Jodie Comer brandishes some gardening shears in a khaki green hat and matching waterproof as Villanelle in behind-the-scenes shots**

▶ **Mia Goth nails spring chic in a pair of floral shorts as she steps out without boyfriend Shia LaBeouf to buy flowers amid the coronavirus pandemic**

▶ **Scarlett Johansson has virtual reunion with Chris Hemsworth and Avengers: Endgame co-stars at Kids' Choice Awards**

▶ **'Let's see who is victorious!' Rebel Wilson starts hilarious fight on TikTok and asks her 7.8M followers to join in**

▶ **'Are you talking?' Model Nicole Trunfio shares an adorable video of her baby girl Ella Wolf as they spend quality time together**

▶ **Petra Ecclestone decks out the family home for an extravagant wrestling-themed party**



▶ **hosts a wedding for her pet dog**
Emily released a slew of intimates

▶ **Arnold Schwarzenegger plugs his bodybuilding competition as he takes a bike ride with girlfriend Heather Milligan**

▶ **Emma Thompson left new life in Venice after just four days and flew back to isolated home in Scotland when Italy's lockdown took hold**

▶ **'Water, that's the best way': Stephen Fry reveals that he hasn't washed his hair with shampoo for EIGHT years**

▶ **Gwyneth Paltrow takes a stroll with husband Brad Falchuk as they take a quarantine break**
The lovebirds tied the knot in September 2018

▶ **'She's Lady Sarah Chatto's DOUBLE!'**
Royal fans go wild over 'uncanny' family resemblance between Princess Charlotte and the Queen's niece

▶ **'So many of us are dying': All My Children's Debbi Morgan sobs as she talks about black communities ravaged by coronavirus**

▶ **Andy Cohen and his son Ben join a socially distant crowd to cheer first responders at 7pm in the West Village as part of the ongoing New York ritual**





▶ **Kate Hudson goes makeup-free as she sips a margarita in bed**

She has been hunkered down at home with her beau Danny Fujikawa and her three children

▶ **Ariana Grande reflects on 'amazing years' at Nickelodeon as Kristen Bell wears a Frozen costume and JoJo Siwa gets slimed at home**

▶ **Dwayne Johnson pokes fun at Kevin Hart's height in 2020 Nickelodeon Kids' Choice Awards acceptance speech**

▶ **He really is The Mountain! 6ft 9ins Game of Thrones star Hafþór Björnsson breaks the world deadlifting record by lifting 1,104lbs**

▶ **Sopranos star Joe Pantoliano is back home and 'recuperating' after being hit by a car in his Connecticut neighborhood**

▶ **Chrissy Teigen and John Legend dress up in Parisian-inspired ensembles for a pal's remote birthday bash**

▶ **Kylie Jenner enjoys a 'Trolls & chill' session with Travis Scott... as the two watch Stormi's favorite movie**

Kylie Jenner posed flirtatiously

▶ **TikTok star Loren Gray, 18, reveals how she was sexually assaulted at 12: 'I had my innocence stolen'**

The assault left her





▶ **Reese Witherspoon covers up her face with polka dot scarf as she keeps up with her quarantine fitness regimen during bike ride with son Deacon**

▶ **Robin Wright spends quality time with daughter Dylan on the beach while husband Clement Giraudet surfs**

▶ **Bella Thorne looks fresh-faced as she lounges around her backyard in tiny bikini during a 'hot Saturday' in quarantine**

▶ **Chris Hemsworth thanks fans who watched Extraction as it looks set to be Netflix's 'biggest film of all time'**
Chris stars as black-market mercenary T

▶ **Tommy Lee slashes price of sprawling Calabasas mansion AGAIN to \$4.6m... \$1.25m less than he paid a decade ago**

▶ **Selena Gomez unveils a DIY 'makeshift studio' as she sets herself up to record from home**
She's making the best of it in quarantine

▶ **Chrissy Teigen, Dwayne Johnson and Keanu Reeves are among Asian American and Pacific Islander stars gracing Gold House's 2020 A100 list**

▶ **Diane Kruger and boyfriend Norman Reedus bring their own**



▶ Hilary Duff admits she is still 'finishing' same book she started five months ago on honeymoon... as she self-isolates with husband Matthew

▶ Will Ferrell reps Navarro College pep squad from Netflix series Cheer on a dog walk with his family

▶ Sarah Hyland says fiance Wells Adams is her 'permanent sunshine'... after he admitted they have 'no wedding plans' due to COVID-19

▶ Kate Middleton makes 'virtual visit' to an astonished new mother in an NHS maternity unit - where the Duchess briefly worked - for a post-natal chat

▶ Chris O'Neal of Greenhouse Academy arrested for felony DUI and hit and run after striking TWO cars
The 26-year-old reportedly struck two cars

▶ Jennifer Garner keeps her mask on as she steps out for a breath of fresh air and a walk in sunny LA

▶ Nikki Bella shows off every curve including her big baby bump in a black maternity dress and matching mask while visiting a friend on Saturday

▶ Tyler Cameron says ex Gigi Hadid 'is going to be an incredible mother'... after making it clear there is NO WAY he's the father

▶ Prince Andrew ignores three formal requests to be interviewed under oath about his



▶ **Martin's daughter Apple, 15, after her vintage car breaks down**

▶ **Rachel Zoe doesn't cover her face as she steps out with gal pal in Los Angeles amid pandemic... after advocating for mask usage on Instagram**

▶ **Camila Cabello dresses up her quarantine look with hoop earrings as she enjoys handheld walk with boyfriend Shawn Mendes**

▶ **Gordon Ramsay dons a plunging white dress for hilarious TikTok with daughter Tilly... amid backlash for isolating in \$5m Cornish home**

▶ **'I wanted children': Melissa George reveals her desire to start a family was the reason for THAT infamous TV interview meltdown**

▶ **Kristin Cavallari is finally allowed to move forward with buying a new home after the court intervenes in her messy ongoing divorce from Jay Cutler**

▶ **Child's Play co-screenwriter John Lafia dead at 63 by suicide**
Lafia's collaborator Don Mancini said he was 'devastated' to learn of the news

▶ **Ozzy Osbourne, 71, is in 'good spirits' amid Parkinson's disease battle as wife Sharon reveals appointment with specialist has been postponed**





▶ **A 'very Happy fifth Birthday' Lottie! The Queen shares a throwback snap with Princess Charlotte as she and Prince Charles share their 'best wishes'**

▶ **From a naked Princess Diana to Meghan Markle shouting at a member of Kate Middleton's staff: New book reveals the dramas inside the walls of Kensington Palace**

▶ **Lili Reinhart goes on an angry Twitter rant accusing fans of 'bullying' boyfriend Cole Sprouse: 'This is why people don't have social media'**

▶ **Sofia Richie flaunts her honed frame in a snakeskin bikini as she strolls along the beach with a gal pal... while beau Scott Disick rides behind on his bike**

▶ **Margot Robbie, Scarlett Johansson and Cameron Diaz break up their quarantine doldrums with a showdown in their Boss B**** Fight video**

▶ **Padma Lakshmi chugs tequila from the bottle after she learns daughter Krishna, 10, will be home from school until September**

▶ **Helen Hunt cuts a casual figure in a denim shirt as she drops daughter Makena, 15, off at her ex Matthew Carnahan's house during lockdown**

▶ **Blue-haired Hilary Duff keeps it casual in a**



▶ **Braless Petra Ecclestone sizzles in a plunging white power suit while kissing fiancé Sam Palmer in sweet post to mark his 37th birthday**

▶ **Billie Piper's sister is the spitting image of the Doctor Who actress... despite their ten-year age gap**
Elle revels in the perks of being Billie's double

▶ **Tara Reid reminds public she is not the same person as Biden accuser Tara Reade after trolling and threats: 'You've got the wrong Tara!'**

▶ **Barbra approved! Pete Weber's mom confirms he's dating Kelley Flanagan... as the pair poke fun at haters on TikTok**

▶ **Paris Hilton reveals she actually let fans come and stay at her house and travel with her pre-coronavirus**

▶ **Karrueche Tran flaunts her washboard abs in a khaki crop top as she goes make-up free for a morning hike in LA**

▶ **Anderson Cooper seen after welcoming baby Wyatt... as it emerges he quietly reunited with ex Benjamin Maisani before son's birth**

▶ **Ellen DeGeneres SLAMMED by former bodyguard for her bad behavior at 2014 Oscars claiming she refused to give him eye contact**

▶ **Kim Kardashian leads celebrities in celebrating Gigi Bryant's 14th birthday after Vanessa's**



▶ they enjoyed a sun-drenched hike with his oldest son, 9, in Madeira

▶ Eminem's home intruder was arrested for trying to break into the rappers OLD HOUSE just last year

▶ Kristin Cavallari and Jay Cutler reach temporary custody agreement after he files for divorce and asks for primary custody

▶ Sopranos star Joe Pantoliano rushed to hospital after getting hit by car during walk in his Connecticut neighborhood

▶ Inside David Beckham's 45th birthday: Star is treated to a bacon and egg roll in bed made by son Cruz, 15, and a classic arcade game

▶ Va va voom! Rebel Wilson turns up the heat as she strips down and flaunts her curves for sultry at-home photoshoot

▶ Nick Cordero's wife Amanda Kloots is elated as she reveals he is off the ventilator and has a trach as health improves

▶ Mandy Moore and Chrissy Metz get together with This Is Us castmates for all-star Zoom call reunion

▶ Sam Smith is in high spirits as they embark on their daily exercise...

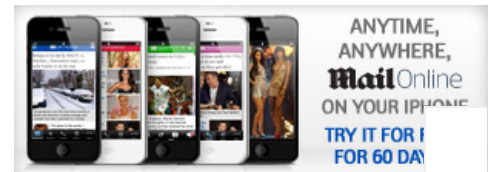


▶ **Bandana-clad Shia LaBeouf walks hand-in-hand with Mia Goth as they take their new puppy to the vets... a month after adopting the pooch**

▶ **Oprah Winfrey kicks off 24-hour Call To Unite livestream benefitting COVID-19 relief...with appearances by Julia Roberts and more**

▶ **Princess Charlotte dons a Zara dress in houndstooth print loved by Princess Diana and Kate Middleton as she volunteers to deliver food**

▶ **Antonio Banderas, 59, dons lycra running gear as he heads out for a jog near his Marbella home... following Spain's relaxed lockdown rules**



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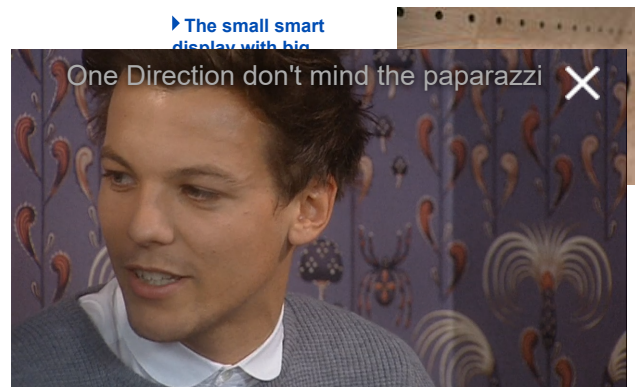
GADGET REVIEWS

▶ **iPad Pro review: Apple takes the tablet to new heights (at a price)**

Apple's new iPad is blazingly fast, gorgeous to look at, and quite simply the best tablet out there - and for a lot of people, probably the best computer out there.



▶ **The small smart display with big**



▶ On one hand, the XR lacks the high-resolution screen and dual-lens camera on the XS, but it is \$250 cheaper and still get most of the other cutting-edge features found on the more expensive model.



▶ **The Pixel 3 outsmarts the iPhone (IF you trust Google with all your information)**

AI seems to permeate every part of its software, from the ability to answer calls for you to being able to almost perfectly predict your morning commute.



▶ **Bigger and better in every way: Apple's XS really does take the iPhone to the Max**

Apple's new iPhone XS and XS Max go on sale on Friday - and the biggest handset Apple has ever made is also its best (and possibly unsurprisingly, its most expensive).



▶ **The \$250 beauty device that works like 'Photoshop for your face'**

Israeli beauty-tech firm Pollogen has launched its Geneo Personal device, which stimulates oxygen from beneath the skin's surface to give you a clearer, fresher face within minutes.



▶ **iOS 12 review: The update that really will improve your iPhone**

Rather than cram in a plethora of new features, Apple's latest update is about boosting stability, with improvements in everything from FaceID and battery life.



▶ **Naim Atom: The hifi that will change the way you listen to music**

It's eye-wateringly expensive at \$2,999, but Naim's Uniti Atom is a revelation, an integrated amplifier that makes it easy to stream music at a quality you've probably never heard before.



▶ **The \$1,000 wireless speaker that really IS worth the price: Naim Mu-so Qb review**



technology out there - at a price.

▶ The best all in one wireless speaker you'll ever hear: Naim Mu-so review

It might not be a name familiar to the US market, but Naim is a legendary British brand hoping to make a splash with the American launch of its \$1499 Mu:So speaker.



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