



**CovAb**<sup>™</sup>  
SARS-CoV-2 Ab Test

# CovAb<sup>™</sup> and Covid-19 variants





## Who are they?

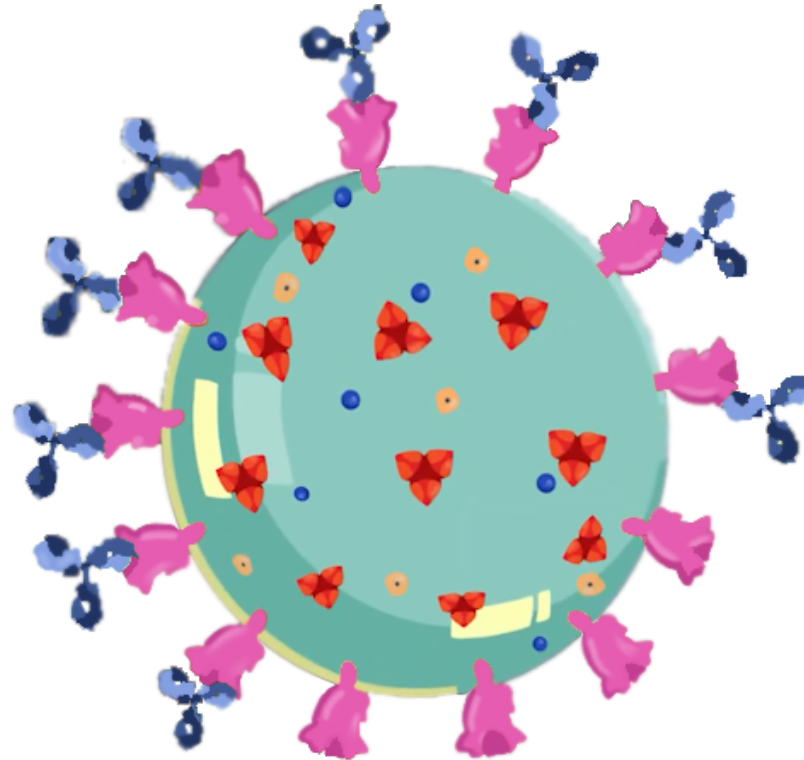
Neutralizing antibodies are Y shaped protein structures that are produced by B cells to combat Covid-19 virus.

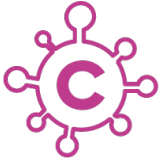




## What do they do?

Neutralizing antibodies attach to the spike protein of the Covid-19 virus and prevents from entering the cells (infection)





## Few variants are created by mutations in S1 spike protein receptor binding domain

- Mutations resulting in various variants involve few modifications in S1 protein receptor binding domain
- A variety of neutralizing antibodies are produced for a large number of targets/epitopes on S1 protein
- The diverse neutralizing antibodies produced to S1 protein outnumber the few antibodies produced specific to variants
- CovAb™ captures majority of antibodies produced against S1 spike protein that are independent of variant specific antibodies



- **CovAb™ detects antibodies that bind to the S1 Spike protein that are common for all variants**



- **CovAb™ positive test indicates past COVID-19 infection by any variant**
- **CovAb™ positive test indicates immune response by S1 antibodies produced by different types of vaccines**