

Product Datasheet

COVID-19 IgG/IgM Immunodetection Kit NBP2-89106

Unit Size: 40 Tests

Store at 4C. Do not freeze.

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Updated 2/22/2021 v.20.1

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NBP2-89106**COVID-19 IgG/IgM Immunodetection Kit**

Product Information	
Unit Size	40 Tests
Concentration	Concentration is not relevant for this product. Please see the protocols for proper use of this product.
Storage	Store at 4C. Do not freeze.
Product Description	
Description	<p>COVID-19 IgG/IgM Immunodetection Kit (Whole Blood/ Serum/Plasma) is a rapid chromatographic immunoassay for the qualitative detection of IgG and IgM antibodies against SARS-COV2 in human whole blood, serum or plasma. This test contains two test lines: an IgG line and an IgM line. During an immune response to infection, IgM antibodies appear in the early stage, followed by the emergence of IgG during the mid to late disease stages.</p> <p>A primary COVID-19 infection is characterized by the presence of detectable IgM antibodies 3-7 days after the onset of infection.</p> <p>A secondary COVID-19 infection is characterized by the elevation of COVID-19-specific IgGs. In the majority of the cases, this is also results in elevated levels of IgM.</p> <p>Detection: The biological sample is added to SARS-COV-2 antigen-coated particles in the test cassette. The mixture then migrates upward on the membrane by capillary action where, in the presence of SARS-COV2 IgM or IgG complexes, it reacts with anti-human IgM antibodies or anti-human IgG antibodies, respectively. If the sample contains IgM antibodies against COVID-19, a colored line will appear in the IgM test line. Similarly, if the sample contains IgG antibodies against COVID-19, a colored line will appear in the IgG test line.</p> <p>Antigens: Colloidal gold labeled COVID-19 Spike and Nucleocapsid recombinant proteins expressed in <i>E. coli</i></p>
Species	Human, SARS-CoV-2
Reactivity Notes	Use in SARS-CoV-2 reported in scientific literature (PMID:33412411)
Specificity/Sensitivity	No cross-reactivity was observed with parainfluenza virus, influenza A virus, influenza B virus, Chlamydia pneumoniae, Mycoplasma pneumoniae, adenovirus, respiratory syncytial virus, hepatitis B surface, type C Hepatitis virus, Treponema pallidum, human immunodeficiency virus, EB virus, measles virus, cytomegalovirus, enterovirus 71, mumps virus, HKU1 virus, OC43 virus, NL63 virus, 229E virus and chicken pox-zoster virus.
Kit Components	Test cassettes, Buffer, Droppers
Notes	The COVID-19 IgG/IgM Immunodetection Kit, catalog number NBP2-89106, was developed by an independent third-party, and was not manufactured by Novus Biologicals or any Bio-Techne brand. This product is not for use in diagnostic procedures and is Research Use Only. Furthermore, this product does not have Emergency Use Authorization (EUA) from the FDA.
Sensitivity	1U/mL for IgM and 0.5U/mL for IgG
Suitable Sample Type	Human Serum, Plasma, Whole Blood
Product Application Details	
Applications	Immunoassay

Recommended Dilutions	Immunoassay
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Publications

Ishigaki H, Nakayama M, Kitagawa Y et al. Neutralizing antibody-dependent and -independent immune responses against SARS-CoV-2 in cynomolgus macaques Virology 2020-12-01 [PMID: 33412411] (SARS-CoV-2)



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Limitations
This product is for research use only and is not approved for use in humans or in clinical diagnosis. Kits are guaranteed for 6 months from date of receipt.

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