

**DESCRIPTION**

<b>Species Reactivity</b>	SARS-CoV-2
<b>Specificity</b>	Detects SARS-CoV-2 ORF3a in Western blots.
<b>Source</b>	Monoclonal Mouse IgG <sub>2A</sub> Clone # 1035921
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	SARS-CoV-2 ORF3a peptide
<b>Conjugate</b>	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
<b>Formulation</b>	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide

\*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

**APPLICATIONS**

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

<b>Western Blot</b>	Optimal dilution of this antibody should be experimentally determined.
<b>Immunocytochemistry</b>	Optimal dilution of this antibody should be experimentally determined.

**PREPARATION AND STORAGE**

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

**BACKGROUND**

ORF3a is an open reading frame coronavirus protein involved in virus replication in release. Analysis of ORF3a nucleotide and protein sequences can predict their ability to alter viral cycle and provides insight into the biology of coronaviruses. ORF3a has been characterized in both SARS-CoV which caused the SARS outbreak and in SARS-CoV-2 which caused the COVID-19 pandemic. ORF3a is a high priority target that is amenable to drug treatment for COVID-19 post viral syndrome. Mutations in ORF3a can help understand viral virulence and design suitable therapeutics.

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