

DESCRIPTION

Species Reactivity	Human/Rat/Hamster
Specificity	Detects recombinant human ACE-2 in direct ELISAs and Western blots. In Western blots, no cross-reactivity with recombinant human ACE-1 or recombinant mouse ACE-1 is observed.
Source	Monoclonal Mouse IgG _{2A} Clone # 171608
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human ACE-2 Gln18-Ser740 (predicted) Accession # Q9BYF1
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.
Immunoprecipitation	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

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

BACKGROUND

Angiotensin I Converting Enzyme-2 (ACE-2) is a type I transmembrane zinc protease that cleaves angiotensins I and II to produce vasodilatory and anti-proliferative peptides. The balance between ACE-1 and ACE-2 activity is critical for maintaining cardiovascular, renal, and pulmonary function. ACE-2 isoforms of 75 kDa and 120 kDa are differentially expressed between lung and kidney, respectively, and a shed soluble form is generated by TACE/ADAM17 mediated cleavage. ACE-2 also functions as the cellular uptake receptor for the SARS coronavirus. Within the extracellular domain, human ACE-2 shares 83% aa sequence identity with mouse and rat ACE-2.

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