

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human TMPRSS2 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 1038105
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human TMPRSS2 synthetic peptide Accession # O15393
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and 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.

	Recommended Concentration	Sample
Flow Cytometry	0.25-1 µg/10 ⁶ cells	HEK293 Human Cell Line Transfected with Human TMPRSS2 and eGFP

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. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

TMPRSS2 belongs to the serine protease family. It contains a type II transmembrane domain, a receptor class A domain, a scavenger receptor cysteine-rich domain and a protease domain. Serine proteases are known to be involved in many physiological and pathological processes. TMPRSS2 facilitates human SARS coronavirus (SARS-CoV) infection via two independent mechanisms: proteolytic cleavage of ACE2, which might promote viral uptake, and cleavage of coronavirus spike glycoprotein, which activates the glycoprotein for cathepsin L independent host cell entry. Alternatively spliced transcripts encoding different proteins have been described.

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