

Human TMPRSS2 Antibody

Monoclonal Mouse IgG_{2B} Clone # 1038105 Catalog Number: MAB107231

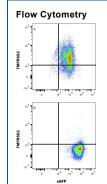
DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human TMPRSS2 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 1038105
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human TMPRSS2 synthetic peptide Accession # 015393
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

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
	Concentration	
Flow Cytometry	0.25 µg/10 ⁶ cells	HEK293 Human Cell Line Transfected with Human
	1.20 Fg/ 11 - 1.1.1	TMPRSS2 and eGFP

DATA



Detection of TMPRSS2 in HEK293 Human Cell Line Transfected with Human TMPRSS2 and eGFP by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with (A) human TMPRSS2 or (B) irrelevant protein, and eGFP was stained with Mouse Anti-Human TMPRSS2 Monoclonal Antibody (Catalog # MAB107231) followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B). Quadrant markers were set based on control antibody staining (Catalog # MAB0041). Staining was performed using our Staining Membrane-associated Proteins protocol.

PREPARATION AND STORAGE		
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C	
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months -20 to -70 °C under sterile conditions after reconstitution.	

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 Lindependent host cell entry. Alternatively spliced transcripts encoding different proteins have been described.

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