

DESCRIPTION

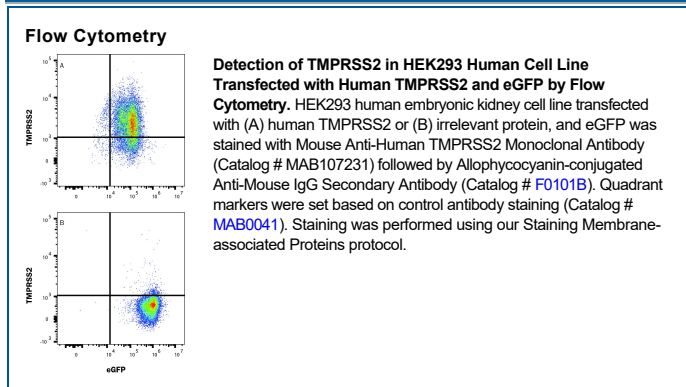
Species Reactivity	Human
Specificity	Detects human TMPRSS2 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 1038105
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human TMPRSS2 synthetic peptide Accession # O15393
Formulation	Lyophilized from a 0.2 µm filtered 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
Flow Cytometry	0.25 µg/10 ⁶ cells	HEK293 Human Cell Line Transfected with Human TMPRSS2 and eGFP

DATA



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. <ul style="list-style-type: none"> • 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 L-independent host cell entry. Alternatively spliced transcripts encoding different proteins have been described.