

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human TMPRSS2 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 1038127
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 is a transmembrane serine protease. The TMPRSS2 gene is upregulated by androgenic hormones in prostate cells and downregulated in androgen-independent prostate cancer. The fusion between TMPRSS2 gene and ERG is the most common chromosomal aberration detected in prostate cancer. In relation to COVID-19, TMPRSS2 is involved in priming the viral spike protein which facilitates viral entry. TMPRSS2 inhibitors are candidates for treatment options of SARS-CoV-2 and other coronaviruses.

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