

#### DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human TMPRSS2 in direct ELISAs.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 1038127
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Human TMPRSS2 synthetic peptide Accession # O15393
<b>Conjugate</b>	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
<b>Formulation</b>	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.

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

#### PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

#### BACKGROUND

TMPPRS2 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.

#### PRODUCT SPECIFIC NOTICES

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