

For Research Use Only

TMPRSS2 Recombinant antibody

Catalog Number: 80152-1-RR



Basic Information

Catalog Number: 80152-1-RR	GenBank Accession Number: BC051839	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 7113	CloneNo.: 715
Source: Rabbit	UNIPROT ID: O15393	Recommended Dilutions: WB 1:2000-1:10000
Isotype: IgG	Full Name: transmembrane protease, serine 2	
Immunogen Catalog Number: AG5824	Calculated MW: 54 kDa	
	Observed MW: 55 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : PC-3 cells, LNCaP cells, Caco-2 cells, COLO 320 cells, HT-29 cells
Species Specificity: Human	

Background Information

TMPRSS2, also named as PRSS10, is a type II transmembrane serine protease which is highly expressed by the epithelium of the human prostate gland. TMPRSS2 may contribute to prostate tumor metastasis via the activation of PAR-2. TMPRSS2 is a Serine protease that proteolytically cleaves and activates the viral spike glycoproteins which facilitate virus-cell membrane fusions. TMPRSS2 as a host cell factor that is critical for spread of several clinically relevant viruses, including influenza A viruses and coronaviruses (PMID: 23468491, 30626688). SARS-CoV-2 uses the SARS-CoV receptor ACE2 for entry and the serine protease TMPRSS2 for S protein priming. The initial spike protein priming by TMPRSS2 is essential for entry and viral spread of SARS-CoV-2 through interaction with the ACE2 receptor (PMID: 32142651, 30626688). Camostat mesylate, an inhibitor of TMPRSS2, can block SARS-CoV-2 infection of lung cells (PMID: 32142651). The MW of TMPRSS2 is about 65-70 kDa. It can be cleaved into some chains with MW 54 kDa, 31 kDa and 26 kDa (PMID: 25734995, 20382709, 26018085).

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

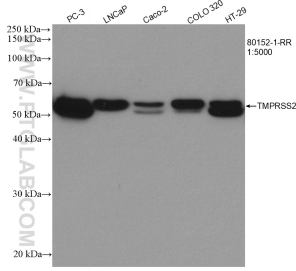
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 80152-1-RR (TMPRSS2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.