

For Research Use Only

TMPRSS2 Monoclonal antibody, PBS Only



Catalog Number: 68264-1-PBS

Basic Information

Catalog Number: 68264-1-PBS	GenBank Accession Number: BC051839	Purification Method: Protein G purification
Size: 1 mg/ml	GeneID (NCBI): 7113	CloneNo.: 1H7E9
Source: Mouse	UNIPROT ID: O15393	
Isotype: IgG1	Full Name: transmembrane protease, serine 2	
Immunogen Catalog Number: AG5824	Calculated MW: 54 kDa	
	Observed MW: 50 kDa	

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
Human, Pig

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 tumour 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 is a host cell factor that is critical for the 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 the 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

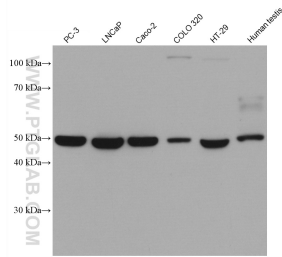
Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS Only

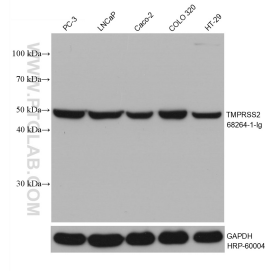
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

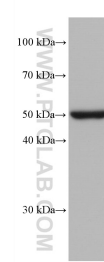
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68264-1-Ig (TMPRSS2 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68264-1-PBS in a different storage buffer formulation.



Various lysates were subjected to SDS PAGE followed by western blot with 68264-1-Ig (TMPRSS2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control. This data was developed using the same antibody clone with 68264-1-PBS in a different storage buffer formulation.



pig kidney tissue was subjected to SDS PAGE followed by western blot with 68264-1-Ig (TMPRSS2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68264-1-PBS in a different storage buffer formulation.