

# TMPRSS2 Recombinant antibody, PBS Only

Catalog Number: 80152-1-PBS

## Basic Information

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

## Applications

Tested Applications:  
WB, Indirect ELISA

Species Specificity:  
Human

## Background Information

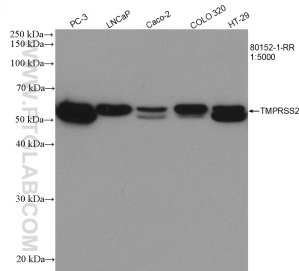
TMPRSS2, also named as PRSS10, is a type II transmembrane serine protease which is highly expressed by the epithelium of the human prostate gland. TMPRSS2 may contribute to prostate tumor metastasis via the activation of PAR-2. TMPRSS2 is a Serine protease that proteolytically cleaves and activates the 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 -80°C.  
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:  
PBS Only

## 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. This data was developed using the same antibody clone with 80152-1-PBS in a different storage buffer formulation.