

Product Details

Summary

description	Produced in rabbits immunized with purified, Recombinant Human TMPRSS2 protein
Accession #	O15393
Alternative names	PP9284, PRSS10, Serine protease 10, TMPRSS2
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 °C for one week . Store at -20 to -99 °C for twelve months from the date of receipt.
Specificity	Recognizes Human TMPRSS2 protein
Isotype	IgG
Host	Rabbit
Clonality	Polyclonal
Conjugation	Unconjugated
Species reactivity	Human, other species was not test
Tested applications	WB, IHC
Immunogen	Recombinant Human TMPRSS2 protein

Background

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 as a host cell factor that is critical for spread of several clinically relevant viruses, including influenza A viruses and coronaviruses. 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. Camostat mesylate, an inhibitor of TMPRSS2, can block SARS-CoV-2 infection of lung cells. The MW of TMPRSS2 is about 65-70 kDa. It can be cleaved in to some chains with MW 54 kDa, 31 kDa and 26 kDa

Product performance

Form	Liquid
Buffer	PBS, pH 7.4, containing 0.05% proclin300, 50% glycerol.
Concentration	0.5mg/ml



MW 54kDa

Application

Dilution Range WB: 1:2000-1:8000, IHC: 1:200-1:400

Tested Picture



Lysate: 20µg/ml
Lane 1: LNCaP cell line

Predicted band size: 54kDa
Observed band size: 54kDa

Various lysates were subjected to SDS PAGE followed by western blot with TMPRSS2 antibody at dilution of 1:1000.

Note

For research use only.