For Research Use Only

TMPRSS2 Recombinant antibody

Catalog Number:80152-1-RR



Purification Method:

WB 1:2000-1:10000

Basic Information

Catalog Number: GenBank Accession Number:

80152-1-RR BC051839 Protein A purification GeneID (NCBI): CloneNo.:

100ul, Concentration: 1000 ug/ml by 7113 Nanodrop: **UNIPROT ID:** Recommended Dilutions:

015393 Rabbit Full Name:

Isotype: transmembrane protease, serine 2

IgG Calculated MW: Immunogen Catalog Number: 54 kDa AG5824

Observed MW: 55 kDa

Applications

Tested Applications:

WB, ELISA WB: PC-3 cells, LNCaP cells, Caco-2 cells, COLO 320

Positive Controls:

Species Specificity: cells, HT-29 cells

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

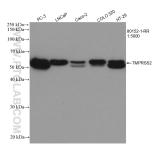
Store at -20°C. Stable for one year after shipment.

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

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.