

Product Information

MemDX™ Membrane Protein Human TMPRSS2 (Transmembrane serine protease 2) Full

Length

Cat. No.: **MPC1180K**

This product is for research use only and is not intended for diagnostic use.

This product is a 53.8 kDa Human TMPRSS2 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

TMPRSS2

Protein Length

Full length

Protein Class

Protease

Molecular Weight

53.8 kDa

TMD

1

Sequence

MALNSGSPPAIGPYHENHGYQPENPYPAQPTVVPTVYEVHHPAQYYPSVPV
QYAPRVLTQASNPVCTQPKSPSGTVCTSKTKKALCITLTLGTFLVGAAL
AAGLLWKFMGSKCSNSGIECDSSGTCINPSNWCDGVSHCPGGEDENRCVR
LYGPNFILQVYSSQRKSWHPVCQDDWNENYGRAACRDMGYKNNFYSSQGI
VDDSGSTSFMKLNTSAGNVDIYKKLYHSDACSSKAVVSLRCIACGVNLNS
SRQSRIVGGESALPGAWPWQVSLHVQNVHVCGGSIITPEWIVTAAHCVEK
PLNPNWHWTAFAGILRQSFMFYGAGYQVEKVISHPNYDSKTKNNDIALMK
LQKPLTFNDLVKPVCLPNPGMMLQPEQLCWISGWGATEEKGKTSEVLNAA
KVLLIETQRCNSRYVDNLITPAMICAGFLQGNVDSCQGDSSGGPLVTSKN
NIWWLIGDTSWGSGBKAYRPGVYGNVMVFTDWIYRQMRADG

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target**Target Protein**

TMPRSS2

Full Name

Transmembrane serine protease 2

Introduction

This gene encodes a protein that belongs to the serine protease family. The encoded protein contains a type II transmembrane domain, a receptor class A domain, a scavenger receptor cysteine-rich domain and a protease domain. Serine proteases are known to be involved in many physiological and pathological processes. This gene was demonstrated to be up-regulated by androgenic hormones in prostate cancer cells and down-regulated in androgen-independent prostate cancer tissue. The protease domain of this protein is thought to be cleaved and secreted into cell media after autocleavage. This protein also facilitates entry of viruses into host cells by proteolytically cleaving and activating viral envelope glycoproteins. Viruses found to use this protein for cell entry include Influenza virus and the human coronaviruses HCoV-229E, MERS-CoV, SARS-CoV and SARS-CoV-2 (COVID-19 virus). Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

Alternative Names

TMPRSS2; PRSS10; transmembrane protease serine 2; epitheliasin; serine protease 10; transmembrane protease, serine 2; Transmembrane serine protease 2

Gene ID

[7113](#)

UniProt ID

[O15393](#)