

Product Information

MemDX™ Membrane Protein Human TMPRSS2 (Transmembrane serine protease 2) for Antibody Discovery

Cat. No.: **MP1433X**

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

This product is a 79.86 kDa Human TMPRSS2 membrane protein expressed in *In vitro* wheat germ expression system. 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

Molecular Weight

79.86 kDa

TMD

1

Sequence

MALNSGSPPAIEPYENHGYQPENPYPAQPTVVPTVYEVHPAQYYPSVPQYAPRVLTQASDPVVCTQPKSPSGTVCTSKTKKAL

Product Description

Application

Enzyme-linked Immunoabsorbent Assay, Western Blot (Recombinant protein), Antibody Production, Protein Array

Expression Systems

in vitro wheat germ expression system

Tag

GST-tag at N-terminal

Protein Format

Liposome

Form

Liquid

Purification

Glutathione Sepharose 4 Fast Flow

Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0

Storage

Store at +4°C for up to one week or several months at -80°C

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

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

Gene ID

[7113](#)

UniProt ID

[O15393](#)