

Recombinant Human TMPRSS2

Cat. No. TMPRSS2-30144TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human TMPRSS2 with a proprietary tag; predicted mwt: 37.73 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	110 amino acids
Description	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. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Molecular Weight	37.730kDa inclusive of tags
Tissue specificity	Expressed strongly in small intestine. Also expressed in prostate, colon, stomach and salivary gland.
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.31% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	GWGATEEKGKTSEVLNAAKVLLIETQRCNSRYVYDNLITPAMICAGFLQGNVDSCQ GDSGGPLVTSKNNIWWLIGDTSWGSGCAKAYRPGVYGNVMVFTDWIYRQMRADG
Sequence Similarities	Belongs to the peptidase S1 family.Contains 1 LDL-receptor class A domain.Contains 1 peptidase S1 domain.Contains 1 SRCR domain.

GENE INFORMATION

Gene Name	TMPRSS2 transmembrane protease, serine 2 [Homo sapiens]
Official Symbol	TMPRSS2
Synonyms	TMPRSS2; transmembrane protease, serine 2; transmembrane protease serine 2; PRSS10;
Gene ID	7113
mRNA Refseq	NM_005656
Protein Refseq	NP_005647
MIM	602060
Uniprot ID	O15393

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Chromosome Location	21q22.3
Pathway	Coregulation of Androgen receptor activity, organism-specific biosystem; Influenza A, organism-specific biosystem; Influenza A, conserved biosystem; Regulation of Androgen receptor activity, organism-specific biosystem; Transcriptional misregulation in cancers, organism-specific biosystem;
Function	peptidase activity; scavenger receptor activity; serine-type endopeptidase activity; serine-type peptidase activity;

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