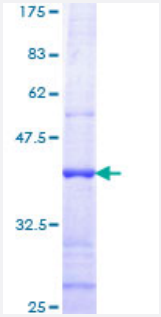
TMPRSS2 (Human) Recombinant Protein (Q01)

Catalog # H00007113-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human TMPRSS2 partial ORF (NP_005647, 383 a.a. - 492 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	GWGATEEKGKTSEVLNAAKVLLIETQRCNSRYVYDNLITPAMICAGFLQGNVDSCQGDSGGPLVT SKNNIWWLIGDTSWGSGCAKAYRPGVYGNVMVFTDWIYRQMRADG
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	37.84
Interspecies Antigen Sequence	Mouse (84); Rat (85)
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

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

Gene Info — TMPRSS2

Entrez GeneID	7113
GeneBank Accession#	NM_005656
Protein Accession#	NP_005647
Gene Name	TMPRSS2
Gene Alias	FLJ41954, PP9284, PRSS10
Gene Description	transmembrane protease, serine 2
Omim ID	602060
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a protein that belongs to the serine protease family. The encoded protein cont ains a type II transmembrane domain, a receptor class A domain, a scavenger receptor cysteine-r ich domain and a protease domain. Serine proteases are known to be involved in many physiolog ical 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 t issue. The protease domain of this protein is thought to be cleaved and secreted into cell media a fter autocleavage. Alternatively spliced transcript variants encoding different isoforms have been f ound for this gene. [provided by RefSeq
Other Designations	epitheliasin

Publication Reference

- Single-Virus Fusion Measurements Reveal Multiple Mechanistically Equivalent Pathways for SARS-CoV-2 Entry.

  Anjali Sengar, Marcos Cervantes, Sai T Bondalapati, Tobin Hess, Peter M Kasson.

  Journal of Virology 2023 May; 97(5):e0199222.

  Application: IF, Lipid mixing assay, Protease treatment, WB, Virus, HIV, MLV pseudoviruses, SARS-CoV-2

Disease

- Genetic Predisposition to Disease
- Prostate cancer
- Prostatic Neoplasms