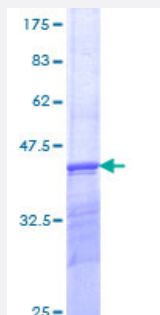


PSMD12 (Human) Recombinant Protein (Q01)

Catalog # H00005718-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human PSMD12 partial ORF (NP_002807, 347 a.a. - 456 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	GEKRWKDLKNRVVEHNIRIMAKYYTRITMKRMAQLLDLSVDESEAFLSNLVVNKTIFAKVDRLAGIIN FQRPKDPNNLLNDWSQKLNSLMSLVNKTTHLIAKEEMIHNLQ
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	37.84
Interspecies Antigen Sequence	Mouse (98); Rat (99)
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 — PSMD12

Entrez GeneID [5718](#)

GeneBank Accession# [NM_002816](#)

Protein Accession# [NP_002807](#)

Gene Name PSMD12

Gene Alias MGC75406, Rpn5, p55

Gene Description proteasome (prosome, macropain) 26S subunit, non-ATPase, 12

Omim ID [604450](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. The 20S core is composed of 4 rings of 28 non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. The 19S regulator is composed of a base, which contains 6 ATPase subunits and 2 non-ATPase subunits, and a lid, which contains up to 10 non-ATPase subunits. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. An essential function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. This gene encodes a non-ATPase subunit of the 19S regulator. A pseudogene has been identified on chromosome 3. [provided by RefSeq]

Other Designations 26S proteasome regulatory subunit p55|proteasome 26S non-ATPase subunit 12

Pathway

- [Proteasome](#)