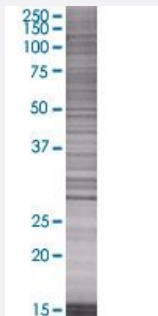


PSME1 293T Cell Transient Overexpression Lysate(Denatured)

Catalog # H00005720-T02

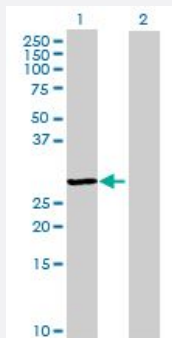
Size 100 uL

Applications



SDS-PAGE Gel

PSME1 transfected lysate.



Western Blot

Lane 1: PSME1 transfected lysate (27.5 KDa)

Lane 2: Non-transfected lysate.

Specification

Transfected Cell Line	293T
Plasmid	pCMV-PSME1 full-length
Host	Human
Theoretical MW (kDa)	27.5
Interspecies Antigen Sequence	Mouse (95); Rat (96)

Quality Control Testing

Transient overexpression cell lysate was tested with Anti-PSME1 antibody ([H00005720-B02](#)) by Western Blots.
SDS-PAGE Gel
PSME1 transfected lysate.
Western Blot
Lane 1: PSME1 transfected lysate (27.5 KDa)
Lane 2: Non-transfected lysate.

Storage Buffer

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot

Gene Info — PSME1

Entrez GeneID[5720](#)**GeneBank Accession#**[NM_006263](#)**Protein Accession#**[NP_006254](#)**Gene Name**

PSME1

Gene Alias

IFI5111, MGC8628, PA28A, PA28alpha, REGalpha

Gene Description

proteasome (prosome, macropain) activator subunit 1 (PA28 alpha)

Omim ID[600654](#)**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. The immunoproteasome contains an alternate regulator, referred to as the 11S regulator or PA28, that replaces the 19S regulator. Three subunits (alpha, beta and gamma) of the 11S regulator have been identified. This gene encodes the alpha subunit of the 11S regulator, one of the two 11S subunits that is induced by gamma-interferon. Three alpha and three beta subunits combine to form a heterohexameric ring. Two transcripts encoding different isoforms have been identified. [provided by RefSeq]

Other Designations

11S regulator complex alpha subunit|29-kD MCP activator subunit|activator of multicatalytic protease subunit 1|interferon gamma up-regulated I-5111 protein|interferon-gamma IEF SSP 5111|interferon-gamma-inducible protein 5111|proteasome activator subunit

Pathway

- [Antigen processing and presentation](#)
- [Proteasome](#)