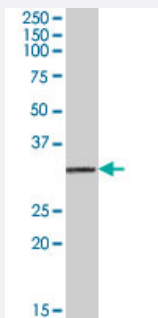


PSME1 polyclonal antibody

Catalog # PAB7267

Size 100 ug

Applications



Western Blot (Cell lysate)

PSME1 polyclonal antibody (Cat # PAB7267) (0.3 ug/mL) staining of human peripheral blood mononucleocyte lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Specification

Product Description Goat polyclonal antibody raised against synthetic peptide of PSME1.

Immunogen A synthetic peptide corresponding to human PSME1.

Sequence C-KNFEKLKKPRGETK

Host Goat

Theoretical MW (kDa) 28.7

Reactivity Human

Specificity This antibody is expected to recognize isoform 1 (NP_006254.1).

Form Liquid

Purification Antigen affinity purification

Concentration 0.5 mg/mL

Quality Control Testing Antibody Reactive Against Synthetic Peptide.

Recommend Usage	ELISA (1:64000) Western Blot (0.3-1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — PSME1

Entrez GeneID	5720
Protein Accession#	NP_006254.1
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

Publication Reference

- [Anti-20S proteasome autoantibodies inhibit proteasome stimulation by proteasome activator PA28.](#)

Brychcy M, Kuckelkorn U, Hausdorf G, Egerer K, Kloetzel PM, Burmester GR, Feist E.

Arthritis & Rheumatism 2006 Jul; 54(7):2175.

Pathway

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