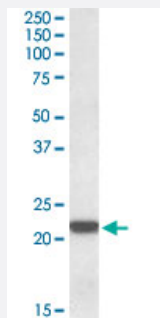


PSMB8 polyclonal antibody

Catalog # PAB14398 Size 100 ug

Applications



Western Blot (Tissue lysate)

PSMB8 polyclonal antibody (Cat # PAB14398) (0.01 ug/mL) staining of human liver 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 PSMB8.
Immunogen	A synthetic peptide corresponding to human PSMB8.
Sequence	C-DVSDLLHQYREANQ
Host	Goat
Theoretical MW (kDa)	29.8, 30.4
Reactivity	Human
Specificity	Approx 22 KDa band observed in human liver, lung and lymph node lysates (calculated MW of 29.8 KDa according to precursor NP_004150.1). The observed molecular weight corresponds to earlier findings in literature with different antibodies (Schwarz et al, J Immunol. 2000 Jul 15;165(2):768-78. PMID: 10878350).
Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL

Recommend Usage	ELISA (1:8000) Western Blot (0.01-0.03 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 (Tissue lysate)

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — PSMB8

Entrez GeneID	5696
Protein Accession#	NP_004150.1;NP_683720.2
Gene Name	PSMB8
Gene Alias	D6S216, D6S216E, LMP7, MGC1491, PSMB5i, RING10, beta5i
Gene Description	proteasome (prosome, macropain) subunit, beta type, 8 (large multifunctional peptidase 7)
Omim ID	177046
Gene Ontology	Hyperlink

Gene Summary

The proteasome is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S core structure. The core structure 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. 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 member of the proteasome B-type family, also known as the T1B family, that is a 20S core beta subunit. This gene is located in the class II region of the MHC (major histocompatibility complex). Expression of this gene is induced by gamma interferon and this gene product replaces catalytic subunit 3 (proteasome beta 5 subunit) in the immunoproteasome. Proteolytic processing is required to generate a mature subunit. Two alternative transcripts encoding two isoforms have been identified; both isoforms are processed to yield the same mature subunit. [provided by RefSeq]

Other Designations

OTTHUMP00000029420|OTTHUMP00000029421|OTTHUMP00000062981|low molecular weight protein 7|macropain subunit C13|multicatalytic endopeptidase complex subunit C13|protease component C13|proteasome (prosome, macropain) subunit beta type 8 (large multifunctional)

Publication Reference

- [Variation in HLA class I antigen-processing genes and susceptibility to human papillomavirus type 16-associated cervical cancer.](#)

Deshpande A, Wheeler CM, Hunt WC, Peyton CL, White PS, Valdez YE, Nolan JP.

The Journal of Infectious Diseases 2008 Feb; 197(3):371.

Pathway

- [Proteasome](#)

Disease

- [Acute Disease](#)
- [Alveolitis](#)
- [Arthritis](#)
- [Asthma](#)
- [Bronchiolitis](#)
- [Brucellosis](#)
- [Cardiovascular Diseases](#)

- [Coronary Disease](#)
- [Dermatitis](#)
- [Diabetes Mellitus](#)
- [Diseases in Twins](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hepatitis B](#)
- [Hepatitis C](#)
- [Hypertension](#)
- [Infant](#)
- [Lupus Erythematosus](#)
- [Multiple Sclerosis](#)
- [Papillomavirus Infections](#)
- [Psoriasis](#)
- [Respiratory Syncytial Virus Infections](#)
- [Spondylarthropathies](#)
- [Spondylitis](#)
- [Uterine Cervical Neoplasms](#)