

PSMB5 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP14528b

Specification

PSMB5 Antibody (C-term) - Product Information

Application WB, IHC-P,E Primary Accession P28074

Other Accession NP 001124197.1,

NP 002788.1

Reactivity
Host
Clonality
Isotype
Calculated MW
Antigen Region

Human
Rabbit
Polyclonal
Rabbit Ig
28480
235-263

PSMB5 Antibody (C-term) - Additional Information

Gene ID 5693

Other Names

Proteasome subunit beta type-5, Macropain epsilon chain, Multicatalytic endopeptidase complex epsilon chain, Proteasome chain 6, Proteasome epsilon chain, Proteasome subunit MB1, Proteasome subunit X, PSMB5, LMPX, MB1, X

Target/Specificity

This PSMB5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 235-263 amino acids from the C-terminal region of human PSMB5.

Dilution

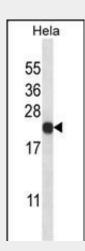
WB~~1:1000 IHC-P~~1:10~50

Format

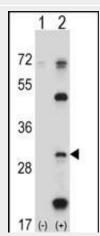
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C



PSMB5 Antibody (C-term) (Cat. #AP14528b) western blot analysis in Hela cell line lysates (35ug/lane). This demonstrates the PSMB5 antibody detected the PSMB5 protein (arrow).



Western blot analysis of PSMB5 (arrow) using rabbit polyclonal PSMB5 Antibody (C-term) (Cat. #AP14528b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the PSMB5 gene.



in small aliquots to prevent freeze-thaw cycles.

Precautions

PSMB5 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PSMB5 Antibody (C-term) - Protein Information

Name PSMB5

Synonyms LMPX, MB1, X

Function

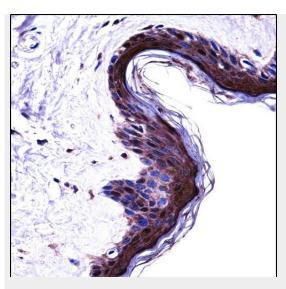
Component of the 20S core proteasome complex involved in the proteolytic degradation of most intracellular proteins. This complex plays numerous essential roles within the cell by associating with different regulatory particles. Associated with two 19S regulatory particles, forms the 26S proteasome and thus participates in the ATP- dependent degradation of ubiquitinated proteins. The 26S proteasome plays a key role in the maintenance of protein homeostasis by removing misfolded or damaged proteins that could impair cellular functions, and by removing proteins whose functions are no longer required. Associated with the PA200 or PA28, the 20S proteasome mediates ubiquitinindependent protein degradation. This type of proteolysis is required in several pathways including spermatogenesis (20S-PA200 complex) or generation of a subset of MHC class I-presented antigenic peptides (20S-PA28 complex). Within the 20S core complex, PSMB5 displays a chymotrypsin-like activity.

Cellular Location Cytoplasm. Nucleus

PSMB5 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence



PSMB5 Antibody (C-term) (AP14528b)immunohistochemistry analysis in formalin fixed and paraffin embedded human skin tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of PSMB5 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

PSMB5 Antibody (C-term) - Background

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

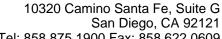
immunoproteasome and is replaced by catalytic subunit 3i (proteasome

known as the T1B

replaced by catalytic subunit 31 (proteasome beta 8 subunit).

member of the proteasome B-type family, also

family, that is a 20S core beta subunit in the



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- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

Multiple transcript variants encoding different isoforms have been found for this gene.

PSMB5 Antibody (C-term) - References

Ri, M., et al. Leukemia 24(8):1506-1512(2010) Lu, S., et al. Exp. Hematol. 37(7):831-837(2009) Lu, S., et al. Exp. Hematol. 36(10):1278-1284(2008) Oerlemans, R., et al. Blood 112(6):2489-2499(2008) Wang, L., et al. Clin. Cancer Res. 14(11):3503-3513(2008)