

PSME1 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5255b

Specification

PSME1 Antibody (C-term) - Product Information

Application	FC, IHC-P, WB,E
Primary Accession	Q06323
Other Accession	Q63797 , Q64L94 , P97371 , P58238 , Q4U5R3
Reactivity	Human
Predicted	Bovine, Monkey, Mouse, Pig, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	28723
Antigen Region	220-249

PSME1 Antibody (C-term) - Additional Information

Gene ID 5720

Other Names

Proteasome activator complex subunit 1, 11S regulator complex subunit alpha, REG-alpha, Activator of multicatalytic protease subunit 1, Interferon gamma up-regulated I-5111 protein, IGUP I-5111, Proteasome activator 28 subunit alpha, PA28a, PA28alpha, PSME1, IFI5111

Target/Specificity

This PSME1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 220-249 amino acids from the C-terminal region of human PSME1.

Dilution

FC~~1:10~50

IHC-P~~1:50~100

WB~~1:1000

E~~Use at an assay dependent concentration.

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 in small aliquots to prevent freeze-thaw cycles.

Precautions

PSME1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PSME1 Antibody (C-term) - Protein Information

Name PSME1

Synonyms IFI5111

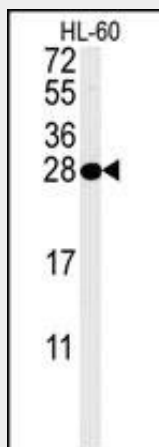
Function Implicated in immunoproteasome assembly and required for efficient antigen processing. The PA28 activator complex enhances the generation of class I binding peptides by altering the cleavage pattern of the proteasome.

PSME1 Antibody (C-term) - Protocols

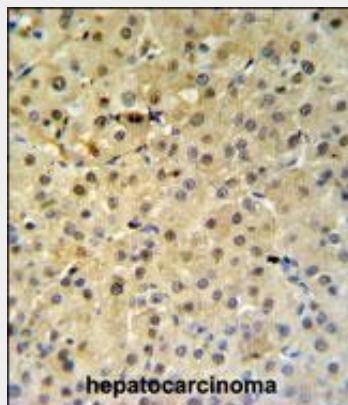
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

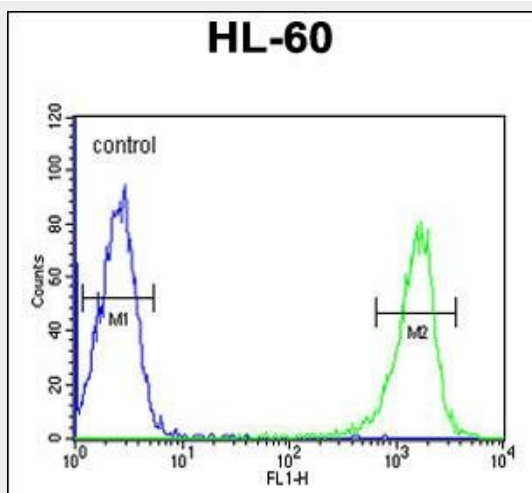
PSME1 Antibody (C-term) - Images



PSME1 Antibody (C-term) Cat. #AP5255b western blot analysis in HL-60 cell line lysates (35ug/lane). This demonstrates the PSME1 antibody detected the PSME1 protein (arrow).



PSME1 Antibody (C-term) (Cat. #AP5255b) IHC analysis in formalin fixed and paraffin embedded hepatocarcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the PSME1 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



PSME1 Antibody (C-term) (Cat. #AP5255b) flow cytometric analysis of HL-60 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

PSME1 Antibody (C-term) - Background

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.

PSME1 Antibody (C-term) - References

Ruckrich, T., et al. Leukemia 23(6):1098-1105(2009) Lemaire, R., et al. J. Proteome Res. 6(11):4127-4134(2007) Kobayashi, K., et al. Brain Res. 1170, 129-139 (2007)