10320 Camino Santa Fe, Suite G
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PSMB10 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12569B

Specification

PSMB10 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	P40306
Other Accession	NP_002792.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**28936**
Antigen Region	**214-242**

PSMB10 Antibody (C-term) - Additional Information

Gene ID 5699

Other Names
Proteasome subunit beta type-10, Low molecular mass protein 10, Macropain subunit MECl-1, Multicatalytic endopeptidase complex subunit MECl-1, Proteasome MECl-1, Proteasome subunit beta-2i, PSMB10, LMP10, MECL1

Target/Specificity
This PSMB10 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 214-242 amino acids from the C-terminal region of human PSMB10.

Dilution
WB~~1:1000

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
PSMB10 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PSMB10 Antibody (C-term) - Protein Information

Name PSMB10

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Synonyms LMP10, MECL1

Function The proteasome is a multicatalytic proteinase complex which is characterized by its ability to cleave peptides with Arg, Phe, Tyr, Leu, and Glu adjacent to the leaving group at neutral or slightly basic pH. The proteasome has an ATP-dependent proteolytic activity. This subunit is involved in antigen processing to generate class I binding peptides.

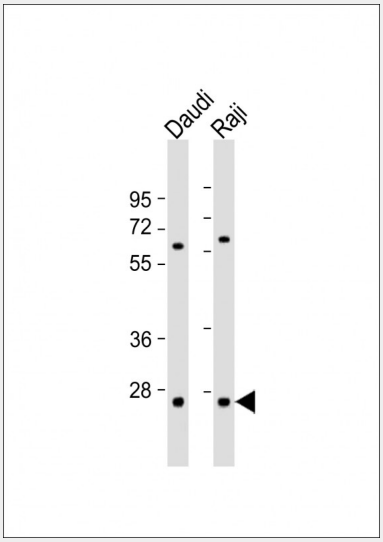
Cellular Location
Cytoplasm {ECO:0000255|PROSITE-ProRule:PRU00809}. Nucleus

PSMB10 Antibody (C-term) - Protocols

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

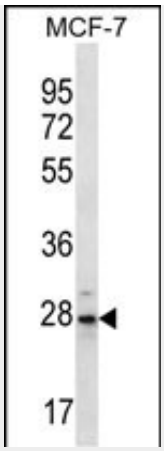
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PSMB10 Antibody (C-term) - Images



All lanes : Anti-PSMB10 Antibody (C-term) at 1:1000 dilution Lane 1: Daudi whole cell lysate Lane 2: Raji whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 29 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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PSMB10 Antibody (C-term) (Cat. #AP12569b) western blot analysis in MCF-7 cell line lysates (35ug/lane).This demonstrates the PSMB10 antibody detected the PSMB10 protein (arrow).

PSMB10 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 member of the proteasome B-type family, also known as the T1B family, that is a 20S core beta subunit. Proteolytic processing is required to generate a mature subunit. Expression of this gene is induced by gamma interferon, and this gene product replaces catalytic subunit 2 (proteasome beta 7 subunit) in the immunoproteasome.

PSMB10 Antibody (C-term) - References

Bailey, S.D., et al. Diabetes Care (2010) In press :
Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)
Moschonas, A., et al. Mol. Cell. Biol. 28(20):6208-6222(2008)
Liu, Y., et al. DNA Seq. 18(4):257-264(2007)
Listovsky, T., et al. EMBO J. 23(7):1619-1626(2004)