10320 Camino Santa Fe, Suite A
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PSMB9 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP8556b

Specification

PSMB9 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession P28065

PSMB9 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 5698

Other Names
Proteasome subunit beta type-9, Low molecular mass protein 2, Macropain chain 7, Multicatalytic endopeptidase complex chain 7, Proteasome chain 7, Proteasome subunit beta-1i, Really interesting new gene 12 protein, PSMB9, LMP2, PSMB6i, RING12

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8556b was selected from the C-term region of human PSMB9. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PSMB9 Antibody (C-term) Blocking Peptide - Protein Information

Name PSMB9

Synonyms LMP2, PSMB6i, RING12

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 (PubMed:33727065, PubMed:34819510). The proteasome has an ATP- dependent proteolytic activity. This subunit is involved in antigen processing to generate class I binding peptides. Replacement of PSMB6 by PSMB9 increases the capacity of the immunoproteasome to cleave model peptides after hydrophobic and basic residues.

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

PSMB9 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

PSMB9 Antibody (C-term) Blocking Peptide - Images

PSMB9 Antibody (C-term) Blocking Peptide - Background

PSMB9 is a member of the proteasome B-type family, also known as the T1B family, that is a 20S core beta subunit. 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.

PSMB9 Antibody (C-term) Blocking Peptide - References

Honcharov,S.V., et.al., Fiziol Zh 55 (2), 3-10 (2009)Moschonas,A., et.al., Mol. Cell. Biol. 28 (20), 6208-6222 (2008)