

**PSMB9 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP8556b****Specification**

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**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](/products/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. 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)