

**PSMB11 Antibody (C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP11339b****Specification**

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**PSMB11 Antibody (C-term) Blocking peptide - Product Information**Primary Accession [A5LHX3](#)**PSMB11 Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 122706**Other Names**

Proteasome subunit beta type-11, Proteasome subunit beta-5t, PSMB11

**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.

**PSMB11 Antibody (C-term) Blocking peptide - Protein Information****Name** PSMB11**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. Incorporated instead of PSMB5 or PSMB8, this unit reduces the chymotrypsin-like activity of the proteasome (By similarity). Plays a pivotal role in development of CD8-positive T cells (By similarity).

**Cellular Location**

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

**PSMB11 Antibody (C-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**PSMB11 Antibody (C-term) Blocking peptide - Images**

**PSMB11 Antibody (C-term) Blocking peptide - Background**

Proteasomes generate peptides that are presented by major histocompatibility complex (MHC) I molecules to other cells of the immune system. Proteolysis is conducted by 20S proteasomes, complexes of 28 subunits arranged as a cylinder in 4 heteroheptameric rings: alpha-1 to -7, beta-1 to -7, beta-1 to -7, and alpha-1 to -7. The catalytic subunits are beta-1 (PSMB6; MIM600307), beta-2 (PSMB7; MIM 604030), and beta-5 (PSMB5; MIM600306). Three additional subunits, beta-1i (PSMB9; MIM 177045), beta-2i (PSMB10; MIM 176847), and beta-5i (PSMB8; MIM 177046), are induced by gamma-interferon (IFNG; MIM 147570) and are preferentially incorporated into proteasomes to make immunoproteasomes. PSMB11, or beta-5t, is a catalytic subunit expressed exclusively in cortical thymic epithelial cells (Murata et al., 2007 [PubMed 17540904]).

**PSMB11 Antibody (C-term) Blocking peptide - References**

Tomaru, U., et al. Blood 113(21):5186-5191(2009)  
Murata, S., et al. Science 316(5829):1349-1353(2007)