

## Product datasheet

# PSMB5 peptide **ab4946**

### Overview

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**Product name** PSMB5 peptide

### Description

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**Nature** Synthetic

#### Amino Acid Sequence

**Accession** [P28074](#)

**Sequence** WIRVSSDNVADLHDKYS

**Amino acids** 243 to 259

### Specifications

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Our [Abpromise guarantee](#) covers the use of **ab4946** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

**Applications** Blocking

**Form** Liquid

#### Additional notes

This peptide may be used for neutralization and control experiments with the polyclonal antibody that reacts with this product and human proteasome PSMB5, catalog [ab3330](#). Using a solution of peptide of equal volume and concentration to the corresponding antibody will yield a large molar excess of peptide (~ 70-fold) for competitive inhibition of antibody-protein binding reactions.

### Preparation and Storage

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**Stability and Storage** Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

### General Info

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**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 unit is responsible of the chymotrypsin-like activity of the proteasome and is one of the principal target of the proteasome inhibitor bortezomib. May catalyze basal processing of intracellular antigens. Plays a role in the protection against oxidative damage through the Nrf2-ARE pathway.

**Sequence similarities**

Belongs to the peptidase T1B family.

**Cellular localization**

Cytoplasm. Nucleus.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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