

Product datasheet

Proteasome 20S LMP2 peptide ab4944

Overview

Product name Proteasome 20S LMP2 peptide

Description

Nature Synthetic

Amino Acid Sequence

Accession [P28065](#)

Sequence RVILGN/DELPKFYDE

Amino acids 207 to 220

Specifications

Our [Abpromise guarantee](#) covers the use of **ab4944** 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

These peptides may be used for neutralization and control experiments with the polyclonal antibody that reacts with this product and mouse proteasome 20S LMP2, catalog ab4944. 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

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

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.

Sequence similarities

Belongs to the peptidase T1B family.

Developmental stage

Highly expressed in immature dendritic cells (at protein level).

Post-translational modifications

Autocleaved. The resulting N-terminal Thr residue of the mature subunit is responsible for the nucleophile proteolytic activity.

Cellular localization

Cytoplasm. Nucleus.

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