# abcam

## Product datasheet

## Recombinant Human PSMB5/MB1 protein ab101825

## 1 Image

**Description** 

Product name Recombinant Human PSMB5/MB1 protein

Purity > 90 % SDS-PAGE.

ab101825 was purified using conventional chromatography techniques.

**Expression system** Escherichia coli

Accession P28074

Protein length Full length protein

Animal free No

**Nature** Recombinant

**Species** Human

Sequence MRGSHHHHHHGMASMTGGQQMGRDLYDDDDKDRWG

**SM**TTTLAFKFRHGVI

VAADSRATAGAYIASQTVKKVIEINPYLLGTMAGGAADCSF

WERLLARQC

RIYELRNKERISVAAASKLLANMVYQYKGMGLSMGTMICG

**WDKRGPGLYY** 

VDSEGNRISGATFSVGSGSVYAYGVMDRGYSYDLEVEQA

YDLARRAIYQA

TYRDAYSGGAVNLYHVREDGWIRVSSDNVADLHEKYSGS

TP

Predicted molecular weight 27 kDa including tags

Amino acids 60 to 263

Tags His tag N-Terminus

## **Specifications**

Our **Abpromise guarantee** covers the use of **ab101825** in the following tested applications.

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

Applications SDS-PAGE

Mass Spectrometry

Mass spectrometry MALDI-TOF

Form Liquid

1

#### **Additional notes**

Previously labelled as PSMB5.

#### **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.

pH: 8.50

Constituents: 0.015% DTT, 0.316% Tris HCI, 50% Glycerol (glycerin, glycerine), 0.876% Sodium

chloride

#### **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 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 throught the Nrf2-ARE pathway.

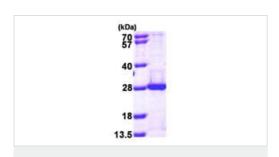
#### Sequence similarities

Belongs to the peptidase T1B family.

#### **Cellular localization**

Cytoplasm. Nucleus.

#### **Images**



15% SDS-PAGE analysis of ab101825 (3μg)

SDS-PAGE - Recombinant Human PSMB5/MB1 protein (ab101825)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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