

Product datasheet

Anti-PSMB4 antibody ab166792

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Overview

<b>Product name</b>	Anti-PSMB4 antibody
<b>Description</b>	Goat polyclonal to PSMB4
<b>Host species</b>	Goat
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat, Rabbit, Hamster, Cow, Dog, Pig, Monkey, Gorilla 
<b>Immunogen</b>	Synthetic peptide corresponding to Human PSMB4 aa 233-243 (internal sequence) (Cysteine residue). Sequence: QIATVTEKGVE  Database link: <a href="#">P28070</a>   <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a>
<b>Positive control</b>	Human skin tissue; HEK293, HeLa, Jurkat and K562 cell lysates.
<b>General notes</b>	This product was previously labelled as Proteasome subunit beta type 4

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 99% Tris buffered saline, 0.5% BSA
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab166792** in the following tested applications.

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

Application	Abreviews	Notes
WB		Use a concentration of 0.3 - 1 µg/ml. Detects a band of approximately 25 kDa (predicted molecular weight: 29 kDa).
IHC-P		Use a concentration of 3.75 µg/ml.
ICC/IF	★★★★☆	Use at an assay dependent concentration.

## Target

<b>Function</b>	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. Mediates the lipopolysaccharide-induced signal macrophage proteasome (By similarity). SMAD1/OAZ1/PSMB4 complex mediates the degradation of the CREBBP/EP300 repressor SNIP1.
<b>Sequence similarities</b>	Belongs to the peptidase T1B family.
<b>Cellular localization</b>	Cytoplasm. Nucleus.

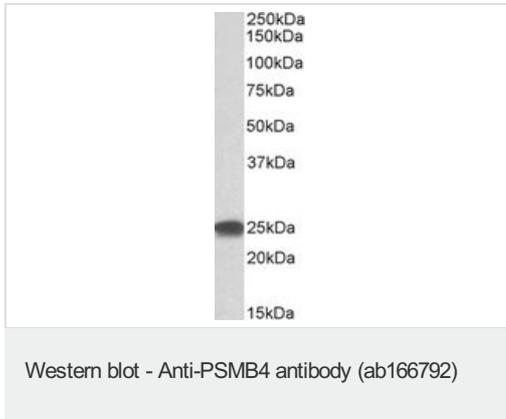
## Images



ab166792 staining PSMB4 in Human U2OS Osteosarcoma cells by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with formaldehyde, permeabilized with Triton X-100 and blocked with 3% BSA for 1 hour at 22°C. Samples were incubated with primary antibody (1/50 in 1% BSA + 1% donkey serum in 1x PBS +0.5%T) for 8 hours at 4°C. An Alexa Fluor® 647-conjugated Donkey anti-goat IgG polyclonal (1/500) was used as the secondary antibody.

Immunocytochemistry/ Immunofluorescence - Anti-PSMB4 antibody (ab166792)

This image is courtesy of an Abreview submitted by Gabriel Ortega



Anti-PSMB4 antibody (ab166792) at 0.3 µg/ml + HEK293 cell lysate (in RIPA buffer) at 35 µg

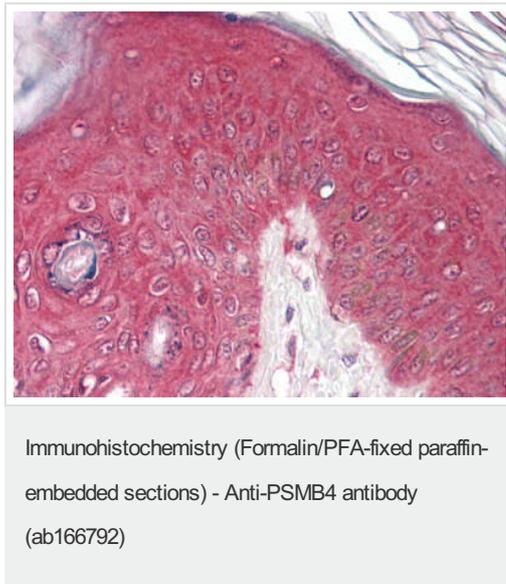
Developed using the ECL technique.

**Predicted band size:** 29 kDa

**Observed band size:** 25 kDa

[why is the actual band size different from the predicted?](#)

Primary incubation: 1 hour.



Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human skin tissue labeling PSMB4 with ab166792 at 3.75 µg/ml.

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

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