

Datasheet for ABIN2786715  
**anti-PSMB2 antibody (Middle Region)**



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1 Image

## Overview

|                      |                                                        |
|----------------------|--------------------------------------------------------|
| Quantity:            | 100 µL                                                 |
| Target:              | PSMB2                                                  |
| Binding Specificity: | Middle Region                                          |
| Reactivity:          | Human, Mouse, Rat, Cow, Dog, Guinea Pig, Rabbit, Horse |
| Host:                | Rabbit                                                 |
| Clonality:           | Polyclonal                                             |
| Conjugate:           | This PSMB2 antibody is un-conjugated                   |
| Application:         | Western Blotting (WB)                                  |

## Product Details

|                       |                                                                                                                                 |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Immunogen:            | The immunogen is a synthetic peptide directed towards the middle region of human PSMB2                                          |
| Sequence:             | YDEHEGPALY YMDYLAALAK APFAAHGYGA FLTLSILDYR YTPTISRERA                                                                          |
| Predicted Reactivity: | Cow: 100%, Dog: 100%, Guinea Pig: 93%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 93%, Rat: 100%                            |
| Characteristics:      | This is a rabbit polyclonal antibody against PSMB2. It was validated on Western Blot using a cell lysate as a positive control. |
| Purification:         | Affinity Purified                                                                                                               |

## Target Details

|         |       |
|---------|-------|
| Target: | PSMB2 |
|---------|-------|

## Target Details

Alternative Name: PSMB2 ([PSMB2 Products](#))

Background: The proteasome is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S core structure. The core structure is composed of 4 rings of 28 non-identical subunits, 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. An essential function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. PSMB2 is a member of the proteasome B-type family, also known as the T1B family, that is a 20S core beta subunit. The proteasome is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S core structure. The core structure is composed of 4 rings of 28 non-identical subunits, 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. An essential function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. This gene encodes a member of the proteasome B-type family, also known as the T1B family, that is a 20S core beta subunit. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.

Alias Symbols: HC7-I, MGC104215, MGC126885

Protein Interaction Partner: KCTD9, UBC, KRT13, PSMD14, ASB11, POMP, PSMB8, PSMB7, PSMB6, PSMB5, PYCRL, PSMB4, PSMB3, PSMB1, PSMA7, PSMA6, PSMA5, PSMA4, PSMA3, PSMA1, HOXA2, PSMA2, PARK2, CDK20, ITGA4, GPX2, FN1, DDX49, IQCB1, VCAM1, SULT1A4, TUBB, PSMA8, C11orf58, SEC23A, PSME3, PSM

Protein Size: 201

Molecular Weight: 23 kDa

Gene ID: 5690

NCBI Accession: [NM\\_002794](#), [NP\\_002785](#)

UniProt: [P49721](#)

Pathways: [Mitotic G1-G1/S Phases](#), [DNA Replication](#), [Synthesis of DNA](#)

## Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

Comment: Antigen size: 201 AA

Application Details

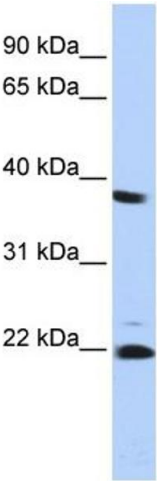
Restrictions:

For Research Use only

Handling

|                    |                                                                                                                                         |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Format:            | Liquid                                                                                                                                  |
| Concentration:     | Lot specific                                                                                                                            |
| Buffer:            | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.                                     |
| Preservative:      | Sodium azide                                                                                                                            |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.                  |
| Handling Advice:   | Avoid repeated freeze-thaw cycles.                                                                                                      |
| Storage:           | -20 °C                                                                                                                                  |
| Storage Comment:   | For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles. |

Images



Western Blotting

**Image 1. WB Suggested Anti-PSMB2 Antibody Titration:**

0.2-1 ug/ml

**ELISA Titer:** 1:312500

**Positive Control:** HepG2 cell lysate