

Datasheet for ABIN2787532  
**anti-PSMD4/ASF antibody (N-Term)**[Go to Product page](#)[1 Image](#)[1 Publication](#)

## Overview

Quantity:	100 µL
Target:	PSMD4/ASF (Psm4)
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Sheep, Cow, Rabbit, Dog, Guinea Pig, Horse, Zebrafish (Danio rerio), Saccharomyces cerevisiae
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PSMD4/ASF antibody is un-conjugated
Application:	Western Blotting (WB)

## Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human PSMD4
Sequence:	VLESTMVCVD NSEYMRNGDF LPTRLQAQD AVNIVCHSKT RSNPENNVGL
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Sheep: 100%, Yeast: 92%, Zebrafish: 100%
Characteristics:	This is a rabbit polyclonal antibody against PSMD4. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

## Target Details

Target:	PSMD4/ASF (Psm4)
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## Target Details

Alternative Name: PSMD4 ([Psm�4 Products](#))

Background: The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. The 20S core 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. The 19S regulator is composed of a base, which contains 6 ATPase subunits and 2 non-ATPase subunits, and a lid, which contains up to 10 non-ATPase 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. PSMD4 encodes one of the non-ATPase subunits of the 19S regulator lid. The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. The 20S core 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. The 19S regulator is composed of a base, which contains 6 ATPase subunits and 2 non-ATPase subunits, and a lid, which contains up to 10 non-ATPase 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 one of the non-ATPase subunits of the 19S regulator lid. Pseudogenes have been identified on chromosomes 10 and 21. 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: AF, AF-1, ASF, MCB1, Rpn10, S5A, pUB-R5

Protein Interaction Partner: UBC, cdc20, XPC, SPRTN, PSMD14, MDM2, PSMC2, PSMA1, ADRM1, UBQLN1, TXNL1, PSMD3, PSMD2, PSMD1, PSMC6, PSMC4, PSMC1, UCHL5, RPS12, PSMD8, UBQLN4, VCP, GJA1, DIO2, SCHIP1, FBXO6, PARK2, UL76, FBXO25, LOC100044627, Gm4705, LOC677113, Rps6-ps4, Rpl34-ps1, Rpl

Protein Size: 377

Molecular Weight: 41 kDa

Gene ID: 5710

NCBI Accession: [NM\\_002810](#), [NP\\_002801](#)

UniProt: [P55036](#)

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

## Application Details

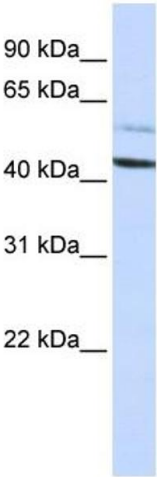
Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 377 AA
Restrictions:	For Research Use only

## 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.

## Publications

Product cited in:	Aljehani, Bamzahim, Yousif, Shi: "In vivo reliability of an infrared fluorescence method for quantification of carious lesions in orthodontic patients." in: <b>Oral health &amp; preventive dentistry</b> , Vol. 4, Issue 2, pp. 145-50, (2006) ( <a href="#">PubMed</a> ).
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Western Blotting

**Image 1. WB Suggested Anti-PSMD4 Antibody Titration:**

0.2-1 ug/ml

**ELISA Titer:** 1:312500

**Positive Control:** HepG2 cell lysate