

Datasheet for ABIN2787421
anti-PSMD12 antibody (Middle Region)[Go to Product page](#)

2 Images

Overview

Quantity:	100 µL
Target:	PSMD12
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Cow, Dog, Guinea Pig, Horse, Zebrafish (Danio rerio), Rabbit
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PSMD12 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human PSMD12
Sequence:	KYKDLLKLFT TMELMRWSTL VEDYGMELRK GSLESPATDV FGSTEEGEKR
Predicted Reactivity:	Cow: 93%, Dog: 93%, Guinea Pig: 93%, Horse: 86%, Human: 100%, Mouse: 93%, Rabbit: 100%, Rat: 93%, Zebrafish: 85%
Characteristics:	This is a rabbit polyclonal antibody against PSMD12. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	PSMD12
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Target Details

Alternative Name:	PSMD12 (PSMD12 Products)
Background:	<p>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 a non-ATPase subunit of the 19S regulator. A pseudogene has been identified on chromosome 3.</p> <p>Alias Symbols: MGC75406, p55, Rpn5</p> <p>Protein Interaction Partner: FUS, HUWE1, SUMO2, UBC, PSMD14, RNF2, KIAA0368, HNRNPA0, TXNL1, SQSTM1, PSMD11, PSMD3, PSMD1, PSMC6, PSMC5, PSMC4, PSMC2, PSMC1, FLNC, FLNB, KCMF1, PARK2, BAG3, RNF11, NPM1, NOS2, PSMD6, PSMD13, PSMD7, UGGT1, PSME3, USP14, PSME1, PSMD10, PSMD8, PSMD4, PSM</p> <p>Protein Size: 456</p>
Molecular Weight:	53 kDa
Gene ID:	5718
NCBI Accession:	NM_002816 , NP_002807
UniProt:	Q5RBI3
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: 456 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific

Handling

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-PSMD12 Antibody Titration:

0.2-1 ug/ml

ELISA Titer: 1:62500

Positive Control: HeLa cell lysate

Western Blotting

Image 2. WB Suggested Anti-PSMD12

Antibody Titration: 0.2-1 µg/mL ELISA Titer: 1::2500

Positive Control: HeLa cell lysate

PSMD12 is supported by BioGPS gene expression data to be expressed in HeLa