

# **PSMD9 Polyclonal Antibody**

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP55259

#### **Product Information**

**Application** IHC-P, IHC-F, IF, E

Primary Accession 000233

**Reactivity** Rat, Pig, Dog, Bovine

Host Rabbit
Clonality Polyclonal
Calculated MW 24682
Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived from human PSMD9

**Epitope Specificity** 65-150/223 **Isotype** IgG

**Purity** affinity purified by Protein A

**Buffer** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

**SIMILARITY**Belongs to the proteasome subunit p27 family.Contains 1 PDZ (DHR) domain. **SUBUNIT**Interacts with PSMC3. Part of a transient complex (modulator) containing

PSMD9, PSMC6 and PSMC3 formed during the assembly of the 26S

proteasome.

**Important Note** This product as supplied is intended for research use only, not for use in

human, therapeutic or diagnostic applications.

**Background Descriptions** 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. Three transcript variants encoding two different isoforms have been found for this gene. [provided by

RefSeq, May 2012]

## **Additional Information**

**Gene ID** 5715

**Other Names** 26S proteasome non-ATPase regulatory subunit 9, 26S proteasome regulatory

subunit p27, PSMD9

**Target/Specificity** Expressed in all tissues tested, highly expressed in liver and kidney.

**Dilution** IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000

Format 0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce

**Storage** Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

#### **Protein Information**

Name PSMD9

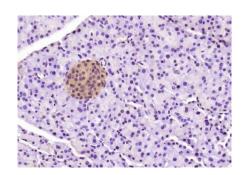
**Function** Acts as a chaperone during the assembly of the 26S proteasome, specifically

of the base subcomplex of the PA700/19S regulatory complex (RC). During the base subcomplex assembly is part of an intermediate PSMD9:PSMC6:PSMC3 module, also known as modulator trimer complex; PSMD9 is released during

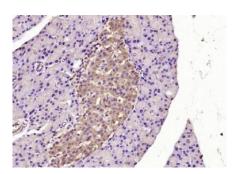
the further base assembly process.

**Tissue Location** Expressed in all tissues tested, highly expressed in liver and kidney

## **Images**



Paraformaldehyde-fixed, paraffin embedded (mouse pancreas); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PSMD9) Polyclonal Antibody, Unconjugated (AP55259) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat pancreas); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PSMD9) Polyclonal Antibody, Unconjugated (AP55259) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.