

**PSMD12 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP20088c**

**Specification**

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**PSMD12 Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O00232</a>
Other Accession	<a href="#">O2KJ25</a> , <a href="#">NP_002807.1</a>
Reactivity	Human
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	52904
Antigen Region	276-304

**PSMD12 Antibody (Center) - Additional Information**

**Gene ID** 5718

**Other Names**

26S proteasome non-ATPase regulatory subunit 12, 26S proteasome regulatory subunit RPN5, 26S proteasome regulatory subunit p55, PSMD12

**Target/Specificity**

This PSMD12 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 276-304 amino acids from the Central region of human PSMD12.

**Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

PSMD12 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**PSMD12 Antibody (Center) - Protein Information**

**Name** PSMD12

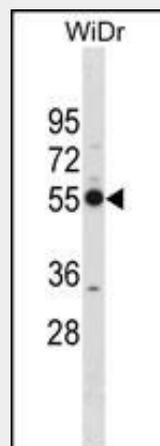
**Function** Component of the 26S proteasome, a multiprotein complex involved in the ATP-dependent degradation of ubiquitinated proteins. This complex plays a key role in the maintenance of protein homeostasis by removing misfolded or damaged proteins, which could impair cellular functions, and by removing proteins whose functions are no longer required. Therefore, the proteasome participates in numerous cellular processes, including cell cycle progression, apoptosis, or DNA damage repair.

### PSMD12 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### PSMD12 Antibody (Center) - Images



PSMD12 Antibody (Center) (Cat. #AP20088c) western blot analysis in WiDr cell line lysates (35ug/lane). This demonstrates the PSMD12 antibody detected the PSMD12 protein (arrow).

### PSMD12 Antibody (Center) - 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. This gene encodes a non-ATPase subunit of the 19S regulator. A pseudogene has been

identified on chromosome 3.

### **PSMD12 Antibody (Center) - References**

Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :  
Gandhi, T.K., et al. Nat. Genet. 38(3):285-293(2006)  
Listovsky, T., et al. EMBO J. 23(7):1619-1626(2004)  
Bouwmeester, T., et al. Nat. Cell Biol. 6(2):97-105(2004)  
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