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# PSMD5 Antibody(C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19711b

## Product Information

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|---|---|
| **Application** | WB, E |
| **Primary Accession** | Q16401 |
| **Other Accession** | Q8BJY1, Q0P5A6, NP_005038.1 |
| **Reactivity** | Human |
| **Predicted** | Bovine, Mouse, Rat, Canine, Rabbit, Chicken |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB40968 |
| **Calculated MW** | 56196 |
| **Antigen Region** | 428-457 |

## Additional Information

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| **Gene ID** | 5711 |
| **Other Names** | 26S proteasome non-ATPase regulatory subunit 5, 26S protease subunit S5 basic, 26S proteasome subunit S5B, PSMD5, KIAA0072 |
| **Target/Specificity** | This PSMD5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 428-457 amino acids from the C-terminal region of human PSMD5. |
| **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** | PSMD5 Antibody(C-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | PSMD5 |
| **Synonyms** | KIAA0072 |

**Function** Acts as a chaperone during the assembly of the 26S proteasome, specifically of the base subcomplex of the PA700/19S regulatory complex (RC). In the initial step of the base subcomplex assembly is part of an intermediate PSMD5:PSMC2:PSMC1:PSMD2 module which probably assembles with a PSMD10:PSMC4:PSMC5:PAAF1 module followed by dissociation of PSMD5.

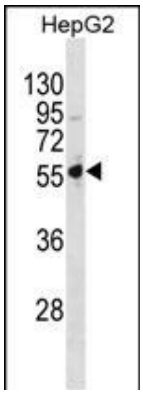
## Background

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 base.

## References

Roelofs, J., et al. Nature 459(7248):861-865(2009)
Kaneko, T., et al. Cell 137(5):914-925(2009)
Listovsky, T., et al. EMBO J. 23(7):1619-1626(2004)
Conticello, S.G., et al. Curr. Biol. 13(22):2009-2013(2003)
Yu, X., et al. Science 302(5647):1056-1060(2003)

## Images




PSMD5 Antibody (C-term) (Cat. #AP19711b) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the PSMD5 antibody detected the PSMD5 protein (arrow).

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