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PSMD10 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14586b

Specification

PSMD10 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	O75832
Other Accession	Q9Z2X3, Q9Z2X2, NP_002805.1, NP_736606.1
Reactivity	**Human**
Predicted	**Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**24428**
Antigen Region	**184-213**

PSMD10 Antibody (C-term) - Additional Information

Gene ID 5716

Other Names
26S proteasome non-ATPase regulatory subunit 10, 26S proteasome regulatory subunit p28, Gankyrin, p28(GANK), PSMD10

Target/Specificity
This PSMD10 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 184-213 amino acids from the C-terminal region of human PSMD10.

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
PSMD10 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PSMD10 Antibody (C-term) - Protein Information

Name PSMD10

Function Acts as a chaperone during the assembly of the 26S proteasome, specifically of the PA700/19S regulatory complex (RC). In the initial step of the base subcomplex assembly is part of an intermediate PSMD10:PSMC4:PSMC5:PAAF1 module which probably assembles with a PSMD5:PSMC2:PSMC1:PSMD2 module. Independently of the proteasome, regulates EGF-induced AKT activation through inhibition of the RHOA/ROCK/PTEN pathway, leading to prolonged AKT activation. Plays an important role in RAS-induced tumorigenesis.

Cellular Location
Cytoplasm. Nucleus

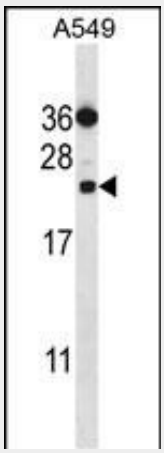
Tissue Location
Tends to be up-regulated in cancer cells with RAS mutations, including lung cancers and adenocarconimas (at protein level).

PSMD10 Antibody (C-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PSMD10 Antibody (C-term) - Images



PSMD10 Antibody (C-term) (Cat. #AP14586b) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the PSMD10 antibody detected the PSMD10 protein (arrow).

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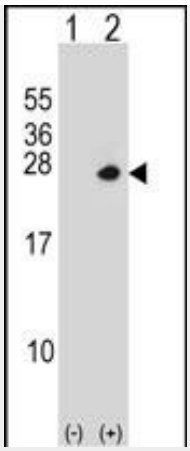

Western blot analysis of PSMD10 (arrow) using rabbit polyclonal PSMD10 Antibody (C-term) (Cat. #AP14586b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the PSMD10 gene.

PSMD10 Antibody (C-term) - 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. Two transcripts encoding different isoforms have been described. Pseudogenes have been identified on chromosomes 3 and 20.

PSMD10 Antibody (C-term) - References

Meng, Y., et al. Cancer Lett. 297(1):9-17(2010)
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