

# PSMD10 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AW5126

#### **Product Information**

**Application** IF, IHC-P, WB **Primary Accession** 075832 Other Accession Q9Z2X2 Reactivity Human **Predicted** Mouse, Rat Host Rabbit Clonality Polyclonal **Calculated MW** 24428 Isotype Rabbit IgG **HUMAN Antigen Source** 

### **Additional Information**

**Gene ID** 5716

Antigen Region 43-76

**Other Names** 26S proteasome non-ATPase regulatory subunit 10, 26S proteasome

regulatory subunit p28, Gankyrin, p28(GANK), PSMD10

**Dilution** IF~~1:25 IHC-P~~1:100~500 WB~~ 1:1000

**Target/Specificity** This PSMD10 antibody is generated from a rabbit immunized with a KLH

conjugated synthetic peptide between 43-76 amino acids from the Central

region of human PSMD10.

**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 (Center) is for research use only and not for use in

diagnostic or therapeutic procedures.

#### **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).

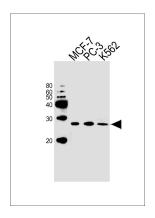
## **Background**

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 pahway, leading to prolonged AKT activation. Plays an important role in RAS-induced tumorigenesis.

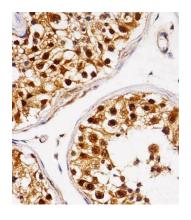
#### References

Hori T.,et al.Gene 216:113-122(1998). Higashitsuji H.,et al.Submitted (JAN-1996) to the EMBL/GenBank/DDBJ databases. Wang H.,et al.Submitted (SEP-2001) to the EMBL/GenBank/DDBJ databases. Ota T.,et al.Nat. Genet. 36:40-45(2004). Kalnine N.,et al.Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases.

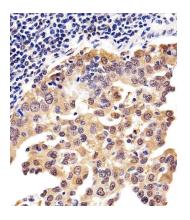
## **Images**



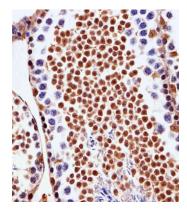
Western blot analysis of lysates from MCF-7, PC-3, K562 cell line (from left to right), using PSMD10 Antibody (Center)(Cat. #AW5126). AW5126 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.



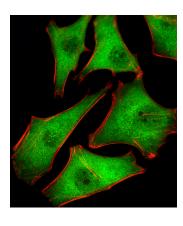
Immunohistochemical analysis of paraffin-embedded H.testis section using PSMD10 Antibody (Center)(Cat#AP20569). AW5126 was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



Immunohistochemical analysis of paraffin-embedded H.lung adenocarcinoma section using PSMD10 Antibody (Center)(Cat#AW5126). AW5126 was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



Immunohistochemical analysis of paraffin-embedded M.testis section using PSMD10 Antibody (Center)(Cat#AW5126). AW5126 was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



Fluorescent image of Hela cells stained with PSMD10 Antibody (Center)(Cat#AW5126). AW5126 was diluted at 1:25 dilution. An Alexa Fluor 488-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody (green). Cytoplasmic actin was counterstained with Alexa Fluor® 555 conjugated with Phalloidin (red).

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