

**PSMD10 Antibody (Center)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AW5126**

**Specification**

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**PSMD10 Antibody (Center) - Product Information**

Application	IF, WB, IHC-P,E
Primary Accession	<a href="#">O75832</a>
Other Accession	<a href="#">O9Z2X2</a>
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	H=24,16;M=25;Rat=25 KDa
Isotype	Rabbit IgG
Antigen Source	HUMAN

**PSMD10 Antibody (Center) - 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  
WB~~ 1:1000  
IHC-P~~1:25

**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.

## PSMD10 Antibody (Center) - 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

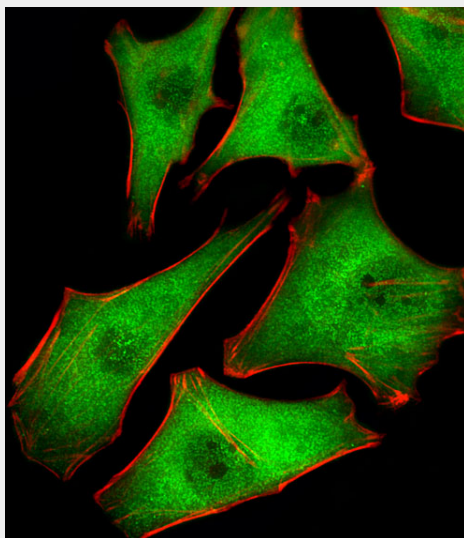
Tends to be up-regulated in cancer cells with RAS mutations, including lung cancers and adenocarcinomas (at protein level).

## PSMD10 Antibody (Center) - Protocols

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

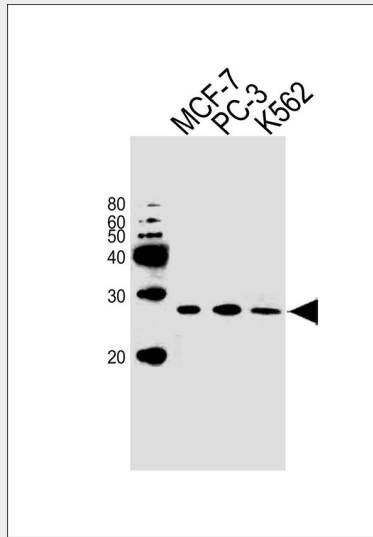
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## PSMD10 Antibody (Center) - Images

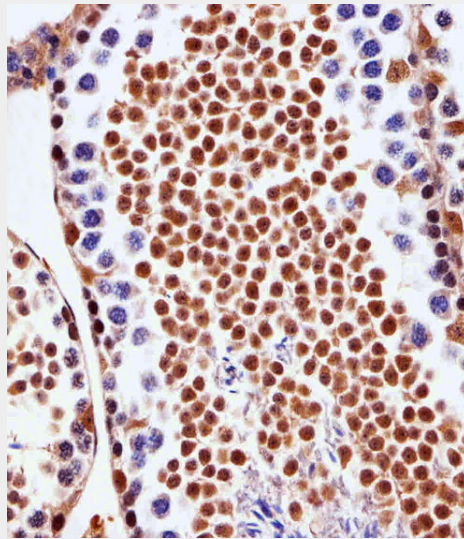


Fluorescent image of HeLa cells stained with PSMD10 Antibody (Center)(Cat#AW5126). AW5126 was diluted at 1:25 dilution. An Alexa Fluor 488-conjugated goat anti-rabbit IgG at 1:400 dilution

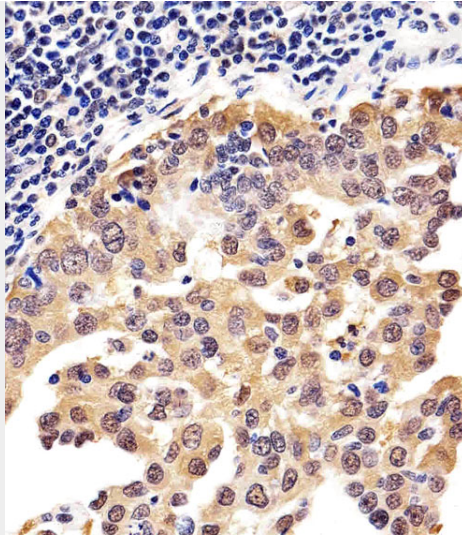
was used as the secondary antibody (green). Cytoplasmic actin was counterstained with Alexa Fluor® 555 conjugated with Phalloidin (red).



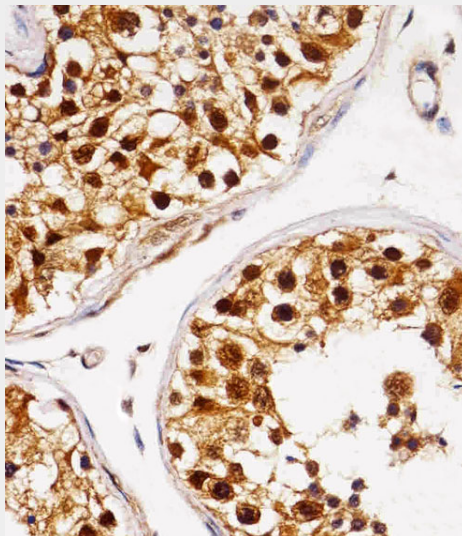
Western blot analysis of lysates from MCF-7, PC-3, K562 cell line (from left to right), using PSMD10 Antibody (Center)(Cat. #AW5126). AW5126 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.



Immunohistochemical analysis of paraffin-embedded 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.



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 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.

#### **PSMD10 Antibody (Center) - 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 pathway, leading to prolonged AKT activation. Plays an important role in RAS-induced tumorigenesis.

#### **PSMD10 Antibody (Center) - 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.