10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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

Specification

PSMD10 Antibody (Center) - Product Information

Application	**IF, WB, IHC-P,E**
Primary Accession	O75832
Other Accession	Q9Z2X2
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.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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

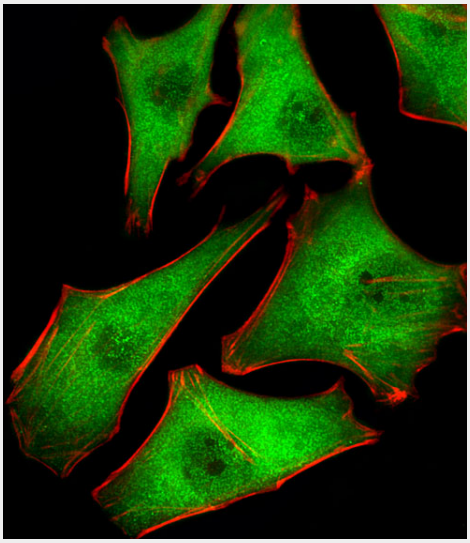
Tissue Location
Tends to be up-regulated in cancer cells with RAS mutations, including lung cancers and adenocarconimas (at protein level).

PSMD10 Antibody (Center) - Protocols

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

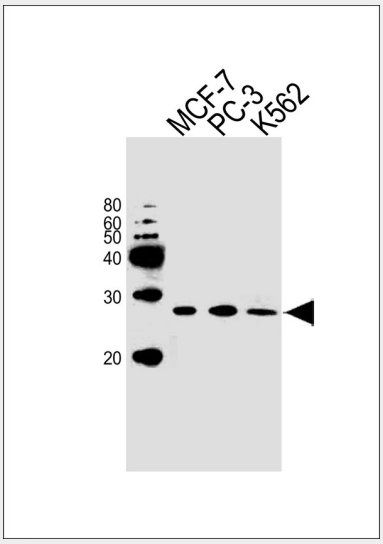
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PSMD10 Antibody (Center) - Images

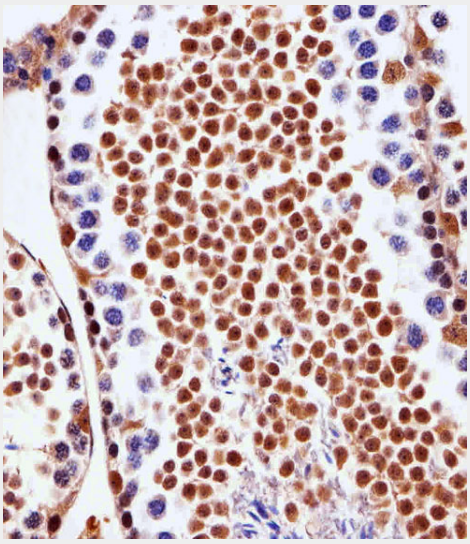


Fluorescent image of Hela cells stained with PSMD10 Antibody (Center)(Cat#AW5126). AW5126 was diluted at 1:25 dilution. An Alexa Fluor 488-conjugated goat anti-rabbit lgG at 1:400 dilution

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

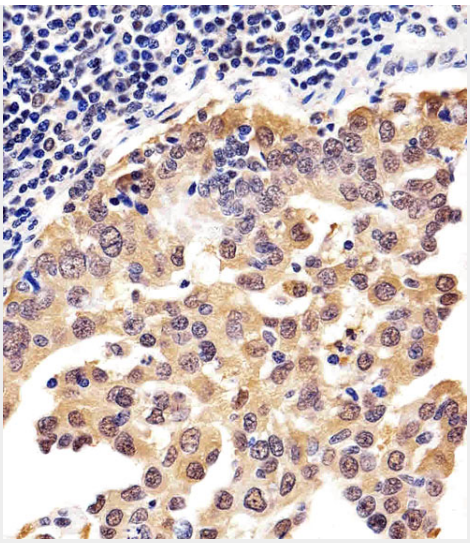


Western blot analysis of lysates from MCF-7, PC-3, K562 cell line (from left to right), using PSMD10 Antibody (Center)(Cat. #AW5126). AW5126 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.

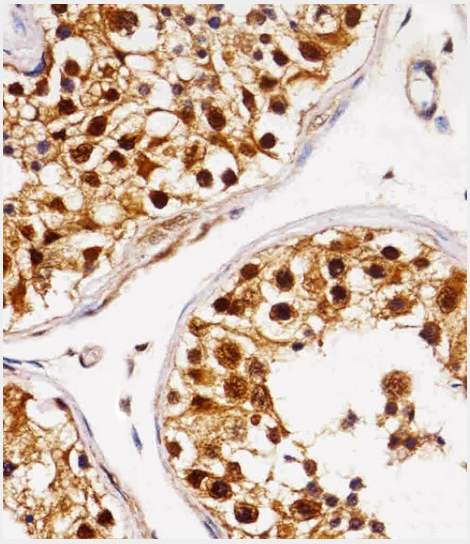


Immunohistochemical analysis of paraffin-embedded M.testis section using PSMD10 Antibody (Center)(Cat#AW5126). AW5126 was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



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 pahway, 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.