

PRS4 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5113

Specification

PRS4 Antibody (C-term) - Product Information

Application	IF, WB, IHC-P,E
Primary Accession	P62191
Other Accession	P62193 , P62192
Reactivity	Human, Mouse, Rat
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	H=49;M=49;Rat=49 KDa
Isotype	Rabbit IgG
Antigen Source	Human

PRS4 Antibody (C-term) - Additional Information

Gene ID 5700

Antigen Region
408-436

Other Names

26S protease regulatory subunit 4; 26S protease regulatory subunit 4; 26S protease regulatory subunit 4; 26S proteasome AAA-ATPase subunit RPT2; 26S protease regulatory subunit 4; Proteasome 26S subunit ATPase 1

Dilution

IF~~1:25
WB~~1:1000
IHC-P~~1:25

Target/Specificity

This PRS4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 408-436 amino acids from the C-terminal region of human PRS4.

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

PRS4 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PRS4 Antibody (C-term) - Protein Information

Name PSMC1

Function

Component of the 26S proteasome, a multiprotein complex involved in the ATP-dependent degradation of ubiquitinated proteins. This complex plays a key role in the maintenance of protein homeostasis by removing misfolded or damaged proteins, which could impair cellular functions, and by removing proteins whose functions are no longer required. Therefore, the proteasome participates in numerous cellular processes, including cell cycle progression, apoptosis, or DNA damage repair. PSMC1 belongs to the heterohexameric ring of AAA (ATPases associated with diverse cellular activities) proteins that unfolds ubiquitinated target proteins that are concurrently translocated into a proteolytic chamber and degraded into peptides.

Cellular Location

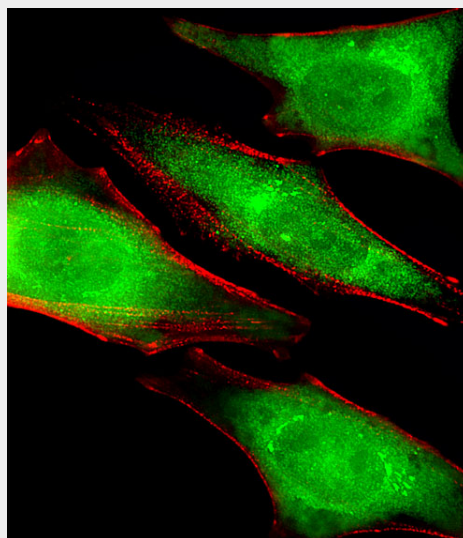
Cytoplasm. Nucleus. Membrane; Lipid-anchor

PRS4 Antibody (C-term) - Protocols

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

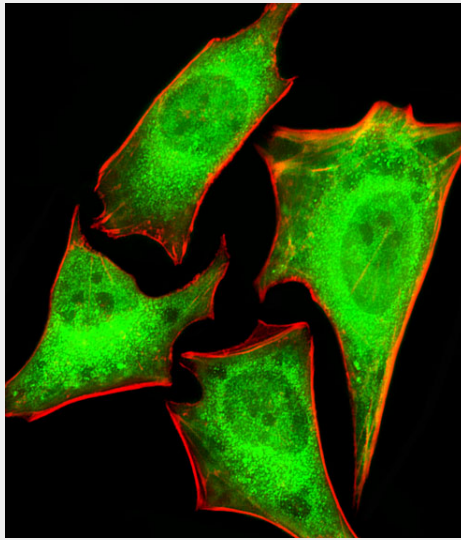
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PRS4 Antibody (C-term) - Images

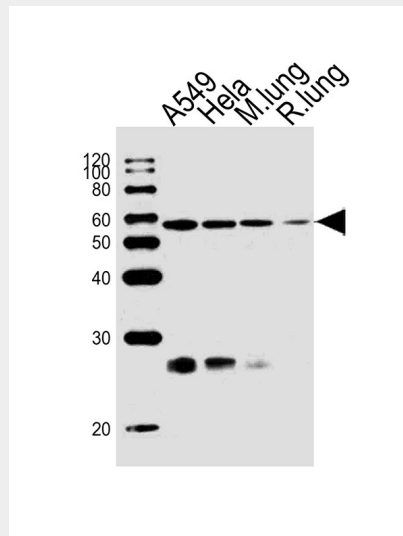


Fluorescent image of HeLa cells stained with PRS4 Antibody (C-term)(Cat#AW5113). AW5113 was diluted at 1:25 dilution. An Alexa Fluor 488-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody (green). Cytoplasmic actin was counterstained with Alexa Fluor®

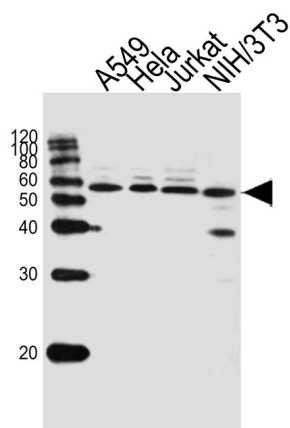
555 conjugated with Phalloidin (red).



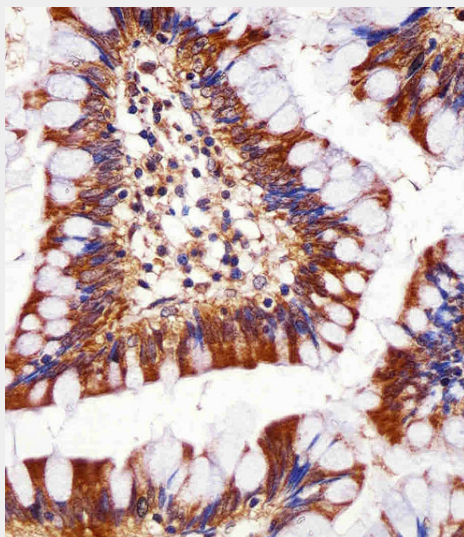
Fluorescent image of HeLa cells stained with PRS4 Antibody (C-term)(Cat#AW5113). AW5113 was diluted at 1:25 dilution. An Alexa Fluor 488-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody (green). Cytoplasmic actin was counterstained with Alexa Fluor® 555 conjugated with Phalloidin (red).



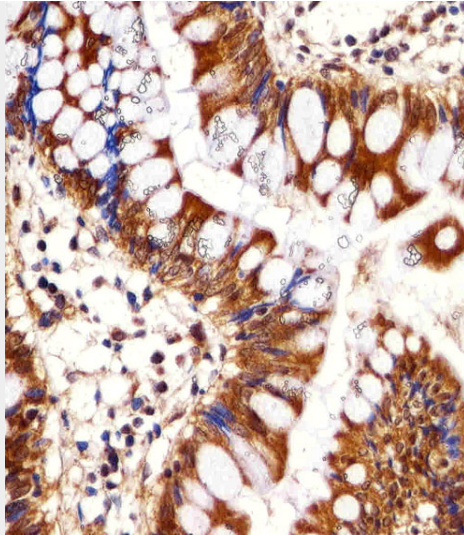
Western blot analysis of lysates from A549, HeLa cell line, mouse lung, rat lung tissue (from left to right), using PRS4 Antibody (C-term)(Cat. #AW5113). AW5113 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.



Western blot analysis of lysates from A549, HeLa, Jurkat, mouse NIH/3T3 cell line (from left to right), using PRS4 Antibody (C-term)(Cat. #AW5113). AW5113 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. colon section using PRS4 Antibody (C-term)(Cat#AW5113). AW5113 was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.



Immunohistochemical analysis of paraffin-embedded H. colon section using PRS4 Antibody (C-term)(Cat#AW5113). AW5113 was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.

PRS4 Antibody (C-term) - Background

The 26S protease is involved in the ATP-dependent degradation of ubiquitinated proteins. The regulatory (or ATPase) complex confers ATP dependency and substrate specificity to the 26S complex.

PRS4 Antibody (C-term) - References

- Dubiel W., et al. J. Biol. Chem. 267:22699-22702(1992).
- Ebert L., et al. Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
- Matilla A., et al. Hum. Mol. Genet. 10:2821-2831(2001).
- Brill L.M., et al. Anal. Chem. 76:2763-2772(2004).
- Katiyar S., et al. Proc. Natl. Acad. Sci. U.S.A. 101:13774-13779(2004).