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PRS4 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20440b

Specification

PRS4 Antibody (C-term) - Product Information

Application	**IHC-P, IF, WB,E**
Primary Accession	P62191
Other Accession	P62193, P62192
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**408-436**

PRS4 Antibody (C-term) - Additional Information

Gene ID 5700

Other Names
26S protease regulatory subunit 4, P26s4, 26S proteasome AAA-ATPase subunit RPT2, Proteasome 26S subunit ATPase 1, PSMC1

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.

Dilution
IHC-P~~1:25
IF~~1:25
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
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.

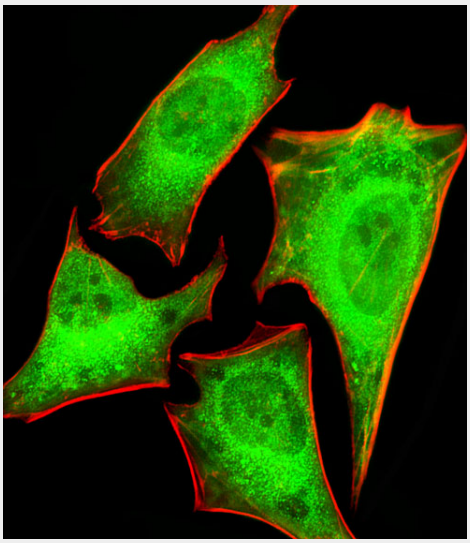
Cellular Location
Cytoplasm. Nucleus. Membrane; Lipid-anchor

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 Cytomety
- Cell Culture

PRS4 Antibody (C-term) - Images



Fluorescent image of Hela cells stained with PRS4 Antibody (C-term)(Cat#AP20440b). AP20440b 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).

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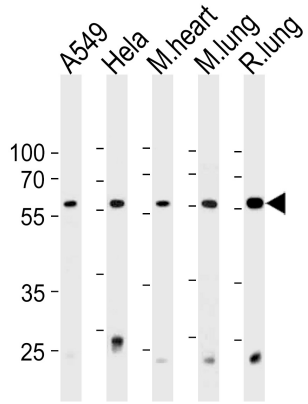
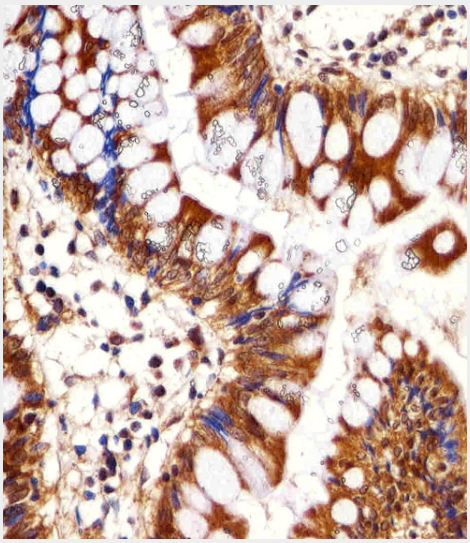


PRS4 Antibody (C-term) (Cat. #AP20440b) western blot analysis in A549,Hela cell line and mouse heart and lung,rat lung tissue lysates (35ug/lane).This demonstrates the PRS4 antibody detected the PRS4 protein (arrow).



Immunohistochemical analysis of paraffin-embedded H. colon section using PRS4 Antibody (C-term)(Cat#AP20440b). AP20440b 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).