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

PSMC2 Antibody
Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM8659b

Specification

PSMC2 Antibody - Product Information

Application	**WB,E**
Primary Accession	P35998
Other Accession	Q5E9F9, Q4R4R0, P46471
Reactivity	**Human**
Predicted	**Bovine, Monkey, Mouse**
Host	**Mouse**
Clonality	**monoclonal**
Isotype	**IgG1,k**
Calculated MW	**48634**

PSMC2 Antibody - Additional Information

Gene ID 5701

Other Names
26S protease regulatory subunit 7, 26S proteasome AAA-ATPase subunit RPT1, Proteasome 26S subunit ATPase 2, Protein MSS1, PSMC2, MSS1

Target/Specificity
This antibody is generated from a mouse immunized with a recombinant protein from human.

Dilution
WB~~1:2000

Format
Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

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
PSMC2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

PSMC2 Antibody - Protein Information

Name PSMC2

Synonyms MSS1 {ECO:0000303|PubMed:8500623}

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. PSMC2 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.

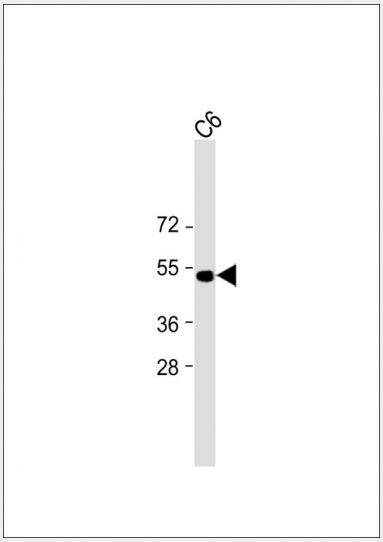
Cellular Location
Cytoplasm. Note=Colocalizes with TRIM5 in cytoplasmic bodies

PSMC2 Antibody - 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

PSMC2 Antibody - Images



All lanes : Anti-PSMC2 Antibody at 1:1000 dilution + C6 cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 50 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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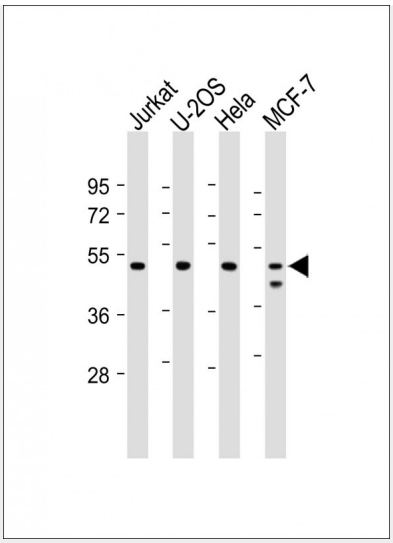

All lanes : Anti-PSMC2 at 1:2000 dilution Lane 1: Jurkat whole cell lysate Lane 2: U-2OS whole cell lysate Lane 3: Hela whole cell lysate Lane 4: MCF-7 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 49 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

PSMC2 Antibody - 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. In case of HIV-1 infection, positive modulator of Tat-mediated transactivation.

PSMC2 Antibody - References

Shibuya H.,et al.Nature 357:700-702(1992).
Ohira M.,et al.Cancer Lett. 197:63-68(2003).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Hillier L.W.,et al.Nature 424:157-164(2003).
Scherer S.W.,et al.Science 300:767-772(2003).