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

PSMC6 Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant PSMC6.
Catalog # AT3467a

Product Information

Application	WB, IF, E
Primary Accession	P62333
Other Accession	BC005390
Reactivity	Human, Mouse, Rat
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	2C4
Calculated MW	44173

Additional Information

Gene ID	5706
Other Names	26S protease regulatory subunit 10B, 26S proteasome AAA-ATPase subunit RPT4, Proteasome 26S subunit ATPase 6, Proteasome subunit p42, PSMC6, SUG2
Target/Specificity	PSMC6 (AAH05390, 290 a.a. ~ 389 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	PSMC6 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

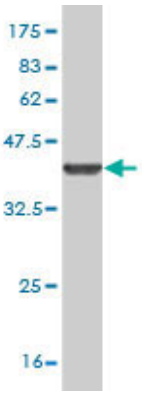
Background

The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. The 20S core is composed of 4 rings of 28 non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. The 19S regulator is composed of a base, which contains 6 ATPase subunits and 2 non-ATPase subunits, and a lid, which contains up to 10 non-ATPase subunits. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. An essential function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. This gene encodes one of the ATPase subunits, a member of the triple-A family of ATPases which have a chaperone-like activity. Pseudogenes have been identified on chromosomes 8 and 12.

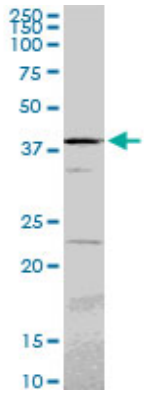
References

Interactions of SARS coronavirus nucleocapsid protein with the host cell proteasome subunit p42. Wang Q, et al. Virol J, 2010 May 17. PMID 20478047.Defining the human deubiquitinating enzyme interaction landscape. Sowa ME, et al. Cell, 2009 Jul 23. PMID 19615732.Assembly pathway of the Mammalian proteasome base subcomplex is mediated by multiple specific chaperones. Kaneko T, et al. Cell, 2009 May 29. PMID 19490896.Chaperone-mediated pathway of proteasome regulatory particle assembly. Roelofs J, et al. Nature, 2009 Jun 11. PMID 19412159.Large-scale mapping of human protein-protein interactions by mass spectrometry. Ewing RM, et al. Mol Syst Biol, 2007. PMID 17353931.

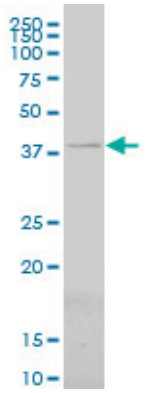
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .

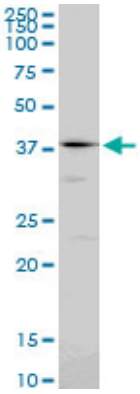


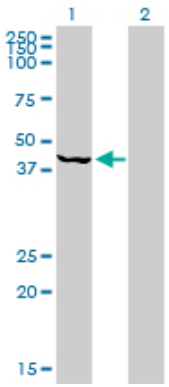
PSMC6 monoclonal antibody (M02), clone 2C4. Western Blot analysis of PSMC6 expression in PC-12((Cat # AT3467a)



PSMC6 monoclonal antibody (M02), clone 2C4 Western Blot analysis of PSMC6 expression in Hela S3 NE ((Cat # AT3467a)

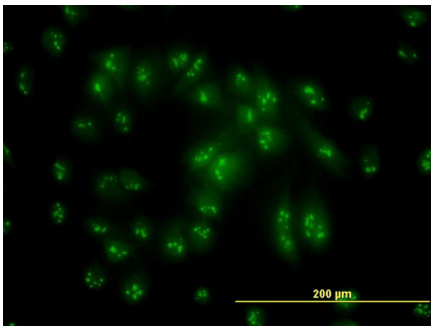
PSMC6 monoclonal antibody (M02), clone 2C4. Western Blot analysis of PSMC6 expression in NIH/3T3((Cat # AT3467a)



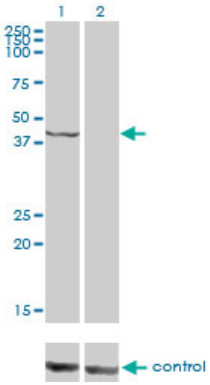


Western Blot analysis of PSMC6 expression in transfected 293T cell line by PSMC6 monoclonal antibody (M02), clone 2C4.

Lane 1: PSMC6 transfected lysate(44.2 KDa).
Lane 2: Non-transfected lysate.



Immunofluorescence of monoclonal antibody to PSMC6 on HeLa cell. [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged PSMC6 is approximately 30ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.