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

PSMD7 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant PSMD7.
Catalog # AT3472a

Product Information

Application	WB
Primary Accession	P51665
Other Accession	BC012606
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 kappa
Clone Names	2G5
Calculated MW	37025

Additional Information

Gene ID	5713
Other Names	26S proteasome non-ATPase regulatory subunit 7, 26S proteasome regulatory subunit RPN8, 26S proteasome regulatory subunit S12, Mov34 protein homolog, Proteasome subunit p40, PSMD7, MOV34L
Target/Specificity	PSMD7 (AAH12606, 1 a.a. ~ 324 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000
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	PSMD7 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

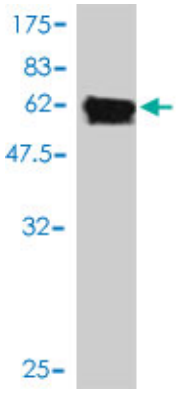
Background

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 a non-ATPase subunit of the 19S regulator. A pseudogene has been identified on chromosome 17.

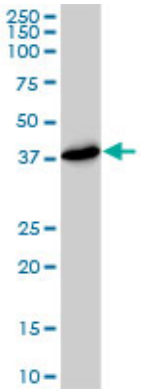
References

A polymorphism rs17336700 in the PSMD7 gene is associated with ankylosing spondylitis in Chinese subjects. Niu Z, et al. Ann Rheum Dis, 2010 Jul 19. PMID 20643764.Fine mapping and association studies of a high-density lipoprotein cholesterol linkage region on chromosome 16 in French-Canadian subjects. Dastani Z, et al. Eur J Hum Genet, 2010 Mar. PMID 19844255.Defining the human deubiquitinating enzyme interaction landscape. Sowa ME, et al. Cell, 2009 Jul 23. PMID 19615732.The crystal structure of the human Mov34 MPN domain reveals a metal-free dimer. Sanches M, et al. J Mol Biol, 2007 Jul 27. PMID 17559875.Large-scale mapping of human protein-protein interactions by mass spectrometry. Ewing RM, et al. Mol Syst Biol, 2007. PMID 17353931.

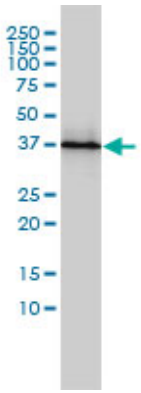
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (61.38 KDa) .



PSMD7 monoclonal antibody (M01), clone 2G5. Western Blot analysis of PSMD7 expression in Hela S3 NE ((Cat # AT3472a)



PSMD7 monoclonal antibody (M01), clone 2G5 Western Blot analysis of PSMD7 expression in Jurkat ((Cat # AT3472a)