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PSME2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant PSME2.
Catalog # AT3474a

Product Information

Application	WB, IF
Primary Accession	Q9UL46
Other Accession	BC019885
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 kappa
Clone Names	3F11-1A3
Calculated MW	27402

Additional Information

Gene ID	5721
Other Names	Proteasome activator complex subunit 2, 11S regulator complex subunit beta, REG-beta, Activator of multicatalytic protease subunit 2, Proteasome activator 28 subunit beta, PA28b, PA28beta, PSME2
Target/Specificity	PSME2 (AAH19885, 1 a.a. ~ 239 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200
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	PSME2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

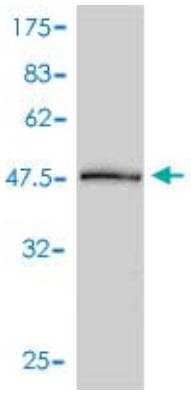
The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. The 20S core is composed of 4 rings of 28 non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. The 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. The immunoproteasome contains an alternate regulator, referred to as the 11S regulator or PA28, that replaces the 19S regulator. Three subunits (alpha, beta and gamma) of the 11S regulator have been

identified. This gene encodes the beta subunit of the 11S regulator, one of the two 11S subunits that is induced by gamma-interferon. Three beta and three alpha subunits combine to form a heterohexameric ring. Six pseudogenes have been identified on chromosomes 4, 5, 8, 10 and 13.

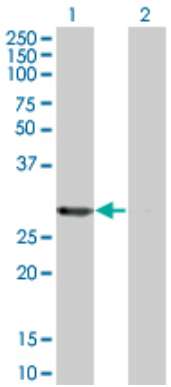
References

Towards a proteome-scale map of the human protein-protein interaction network. Rual JF, et al. Nature, 2005 Oct 20. PMID 16189514.The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.Mammalian Cdh1/Fzr mediates its own degradation. Listovsky T, et al. EMBO J, 2004 Apr 7. PMID 15029244.The Vif protein of HIV triggers degradation of the human antiretroviral DNA deaminase APOBEC3G. Conticello SG, et al. Curr Biol, 2003 Nov 11. PMID 14614829.Induction of APOBEC3G ubiquitination and degradation by an HIV-1 Vif-Cul5-SCF complex. Yu X, et al. Science, 2003 Nov 7. PMID 14564014.

Images

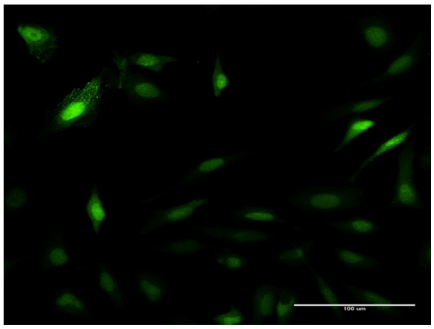


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (52.03 KDa) .



Western Blot analysis of PSME2 expression in transfected 293T cell line by PSME2 monoclonal antibody (M01), clone 3F11-1A3.

Lane 1: PSME2 transfected lysate(27.4 KDa).
Lane 2: Non-transfected lysate.



Immunofluorescence of monoclonal antibody to PSME2 on HeLa cell . [antibody concentration 10 ug/ml]

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