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PSMB10 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant PSMB10.
Catalog # AT3458a

Product Information

Application	WB, IF, E
Primary Accession	P40306
Other Accession	BC017198
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	3F8
Calculated MW	28936

Additional Information

Gene ID	5699
Other Names	Proteasome subunit beta type-10, Low molecular mass protein 10, Macropain subunit MECl-1, Multicatalytic endopeptidase complex subunit MECl-1, Proteasome MECl-1, Proteasome subunit beta-2i, PSMB10, LMP10, MECL1
Target/Specificity	PSMB10 (AAH17198, 1 a.a. ~ 273 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 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	PSMB10 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

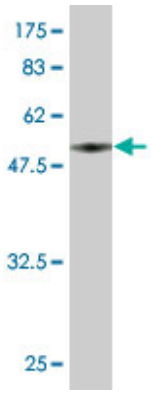
Background

The proteasome is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S core structure. The core structure 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. 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 member of the proteasome B-type family, also known as the T1B family, that is a 20S core beta subunit. Proteolytic processing is required to generate a mature subunit. Expression of this gene is induced by gamma interferon, and this gene product replaces catalytic subunit 2 (proteasome beta 7 subunit) in the immunoproteasome.

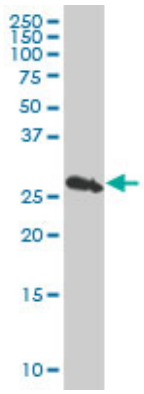
References

1.Endoplasmic reticulum stress activates autophagy but not the proteasome in neuronal cells: implications for Alzheimer's disease.Nijholt DA, de Graaf TR, van Haastert ES, Oliveira AO, Berkers CR, Zwart R, Ovaa H, Baas F, Hoozemans JJ, Scheper W.Cell Death Differ. 2011 Jan 21. [Epub ahead of print]

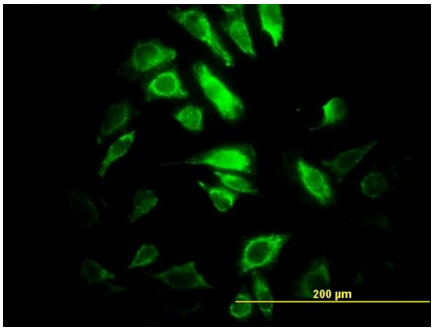
Images



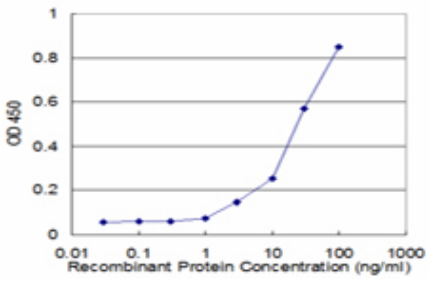
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (55.77 KDa) .



PSMB10 monoclonal antibody (M01), clone 3F8 Western Blot analysis of PSMB10 expression in Jurkat ((Cat # AT3458a)



Immunofluorescence of monoclonal antibody to PSMB10 on HeLa cell. [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged PSMB10 is approximately 3ng/ml as a capture antibody.

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