

# PSMB10 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant PSMB10.

Catalog # AT3458a

## Product Information

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<b>Application</b>	WB, IF, E
<b>Primary Accession</b>	<a href="#">P40306</a>
<b>Other Accession</b>	<a href="#">BC017198</a>
<b>Reactivity</b>	Human
<b>Host</b>	mouse
<b>Clonality</b>	monoclonal
<b>Isotype</b>	IgG1 Kappa
<b>Clone Names</b>	3F8
<b>Calculated MW</b>	28936

## Additional Information

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<b>Gene ID</b>	5699
<b>Other Names</b>	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
<b>Target/Specificity</b>	PSMB10 (AAH17198, 1 a.a. ~ 273 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
<b>Dilution</b>	WB~~1:500~1000 IF~~1:50~200 E~~N/A
<b>Format</b>	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
<b>Precautions</b>	PSMB10 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

## Background

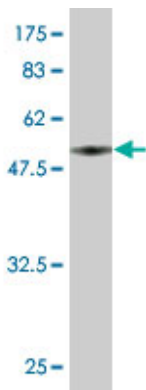
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The proteasome is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S core structure. The core structure is composed of 4 rings of 28 non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 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.

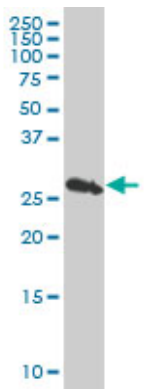
## References

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]

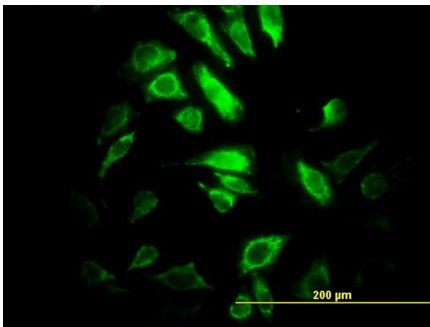
## Images



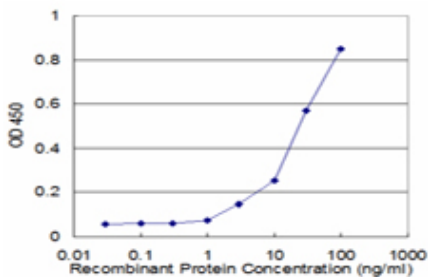
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (55.77 KDa) .



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'.