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PSMB10 Antibody (monoclonal) (M01)

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

Specification

PSMB10 Antibody (monoclonal) (M01) - Product Information

Application	**IF, WB, E**
Primary Accession	P40306
Other Accession	BC017198
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG1 Kappa**
Calculated MW	**28936**

PSMB10 Antibody (monoclonal) (M01) - 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

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.

PSMB10 Antibody (monoclonal) (M01) - Protocols

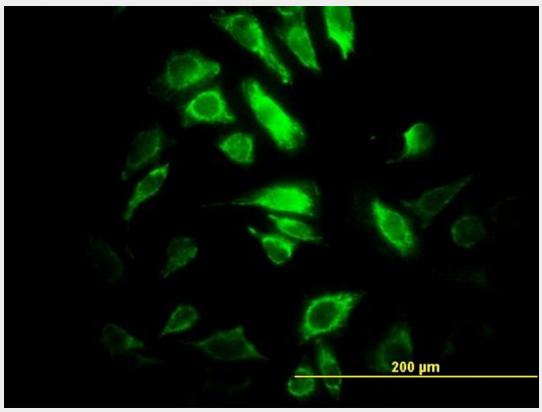
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides

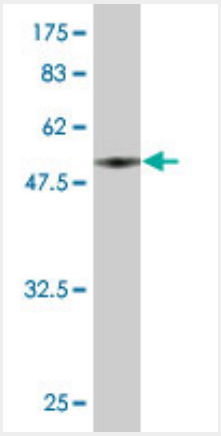
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- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

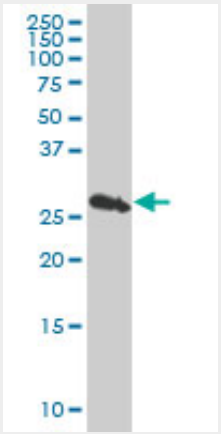
PSMB10 Antibody (monoclonal) (M01) - Images



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

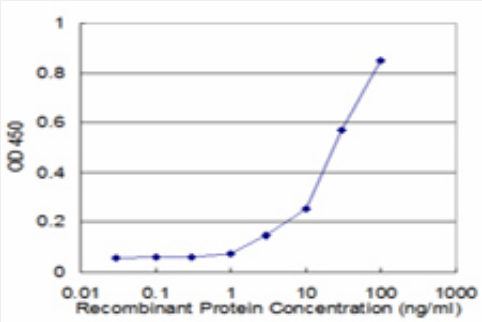


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (55.77 KDa) .



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



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

PSMB10 Antibody (monoclonal) (M01) - 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.

PSMB10 Antibody (monoclonal) (M01) - 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]