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PSMA1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant PSMA1.
Catalog # AT3453a

Product Information

Application	WB, IF, E
Primary Accession	P25786
Other Accession	BC002577
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 kappa
Clone Names	1D9-1C7
Calculated MW	29556

Additional Information

Gene ID	5682
Other Names	Proteasome subunit alpha type-1, 30 kDa prosomal protein, PROS-30, Macropain subunit C2, Multicatalytic endopeptidase complex subunit C2, Proteasome component C2, Proteasome nu chain, PSMA1, HC2, NU, PROS30, PSC2
Target/Specificity	PSMA1 (AAH02577, 1 a.a. ~ 263 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	PSMA1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

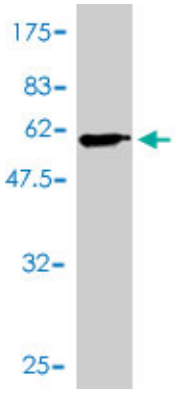
Background

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 peptidase T1A family, that is a 20S core alpha subunit. Alternative splicing results in multiple transcript variants encoding distinct isoforms.

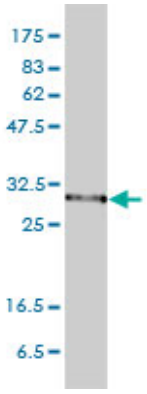
References

1.The Role of Translationally Controlled Tumor Protein in Tumor Growth and Metastasis of Colon Adenocarcinoma Cells.Ma Q, Geng Y, Xu W, Wu Y, He F, Shu W, Huang M, Du H, Li M.J Proteome Res. 2009 Aug 11. [Epub ahead of print]

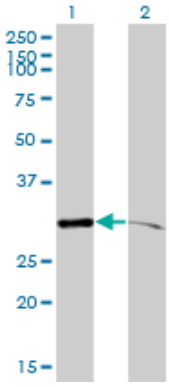
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (54.67 KDa) .

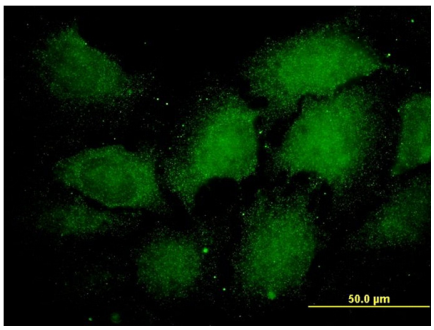


PSMA1 monoclonal antibody (M01), clone 1D9-1C7
Western Blot analysis of PSMA1 expression in HeLa ((Cat # AT3453a)

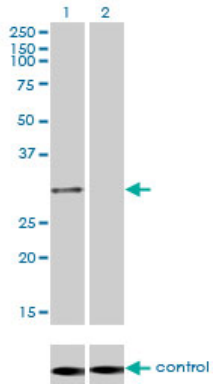


Western Blot analysis of PSMA1 expression in transfected 293T cell line by PSMA1 monoclonal antibody (M01), clone 1D9-1C7.

Lane 1: PSMA1 transfected lysate(30.2 KDa).
Lane 2: Non-transfected lysate.



Immunofluorescence of monoclonal antibody to PSMA1 on HeLa cell. [antibody concentration 60 ug/ml]



Detection limit for recombinant GST tagged PSMA1 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'.