

## **PSMD10 Antibody (monoclonal) (M01)**

Mouse monoclonal antibody raised against a partial recombinant PSMD10.

Catalog # AT3468a

### **Specification**

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#### **PSMD10 Antibody (monoclonal) (M01) - Product Information**

|                   |                          |
|-------------------|--------------------------|
| Application       | IF, WB, IHC, E           |
| Primary Accession | <a href="#">O75832</a>   |
| Other Accession   | <a href="#">BC011960</a> |
| Reactivity        | Human                    |
| Host              | mouse                    |
| Clonality         | Monoclonal               |
| Isotype           | IgG1 Kappa               |
| Calculated MW     | 24428                    |

#### **PSMD10 Antibody (monoclonal) (M01) - Additional Information**

**Gene ID** 5716

##### **Other Names**

26S proteasome non-ATPase regulatory subunit 10, 26S proteasome regulatory subunit p28, Gankyrin, p28(GANK), PSMD10

##### **Target/Specificity**

PSMD10 (AAH11960, 127 a.a. ~ 226 a.a) partial 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**

PSMD10 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

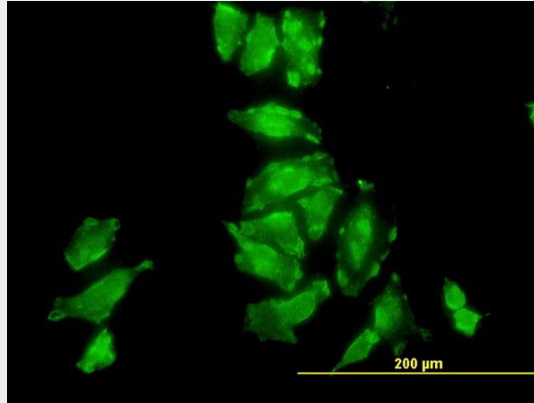
#### **PSMD10 Antibody (monoclonal) (M01) - Protocols**

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

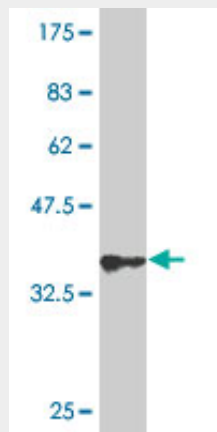
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

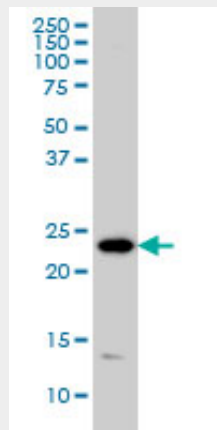
### PSMD10 Antibody (monoclonal) (M01) - Images



Immunofluorescence of monoclonal antibody to PSMD10 on HeLa cell. [antibody concentration 10 ug/ml]

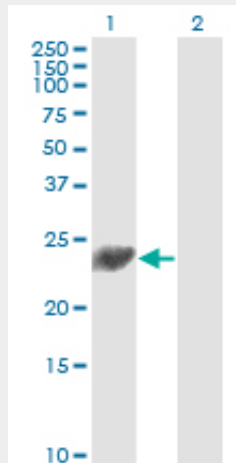


Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.63 KDa) .



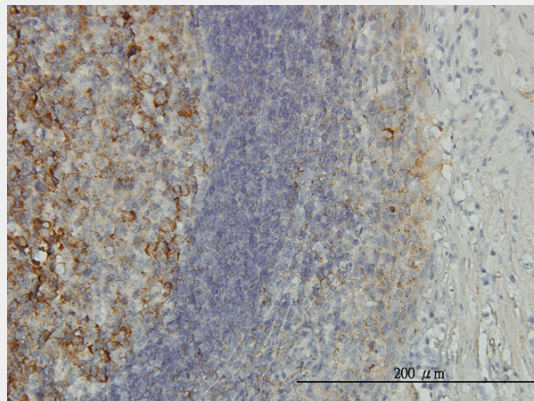
PSMD10 monoclonal antibody (M01), clone 4B5 Western Blot analysis of PSMD10 expression in

HeLa ( (Cat # AT3468a )

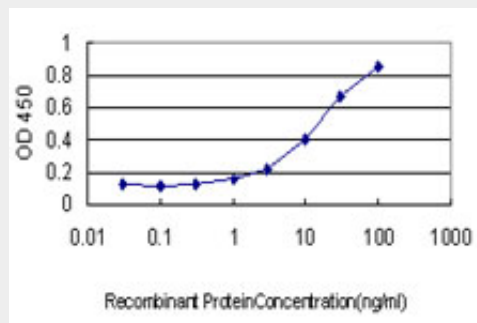


Western Blot analysis of PSMD10 expression in transfected 293T cell line by PSMD10 monoclonal antibody (M01), clone 4B5.

Lane 1: PSMD10 transfected lysate(24.4 KDa).  
 Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to PSMD10 on formalin-fixed paraffin-embedded human tonsil. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged PSMD10 is approximately 0.3ng/ml as a capture antibody.

### PSMD10 Antibody (monoclonal) (M01) - 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. This gene encodes a non-ATPase subunit of the 19S regulator. Two transcripts encoding different isoforms have been described. Pseudogenes have been identified on chromosomes 3 and 20.

### **PSMD10 Antibody (monoclonal) (M01) - References**

Gankyrin plays an essential role in Ras-induced tumorigenesis through regulation of the RhoA/ROCK pathway in mammalian cells. Man JH, et al. J Clin Invest, 2010 Aug 2. PMID 20628200. Systematic resequencing of X-chromosome synaptic genes in autism spectrum disorder and schizophrenia. Piton A, et al. Mol Psychiatry, 2010 May 18. PMID 20479760. Overexpression of a novel gene gankyrin correlates with the malignant phenotype of colorectal cancer. Tang S, et al. Cancer Biol Ther, 2010 Jan. PMID 19901563. p28GANK inhibits endoplasmic reticulum stress-induced cell death via enhancement of the endoplasmic reticulum adaptive capacity. Dai RY, et al. Cell Res, 2009 Nov. PMID 19736567. Involvement of the mitochondrial pathway in p53-independent apoptosis induced by p28GANK knockdown in Hep3B cells. Wang J, et al. Cytogenet Genome Res, 2009. PMID 19729910.