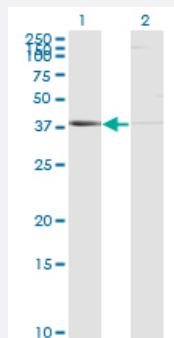


PSMB8 monoclonal antibody (M01), clone 1B3

Catalog # H00005696-M01

Size 100 ug

Applications

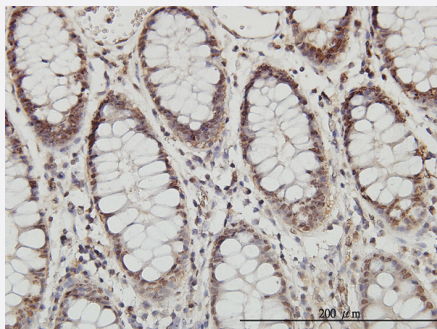


Western Blot (Transfected lysate)

Western Blot analysis of PSMB8 expression in transfected 293T cell line by PSMB8 monoclonal antibody (M01), clone 1B3.

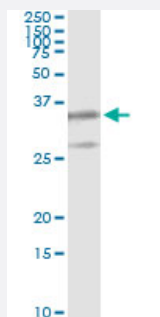
Lane 1: PSMB8 transfected lysate(29.8 KDa).

Lane 2: Non-transfected lysate.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to PSMB8 on formalin-fixed paraffin-embedded human colon. [antibody concentration 3 ug/ml]

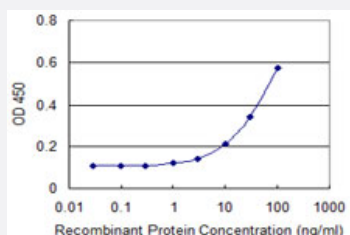


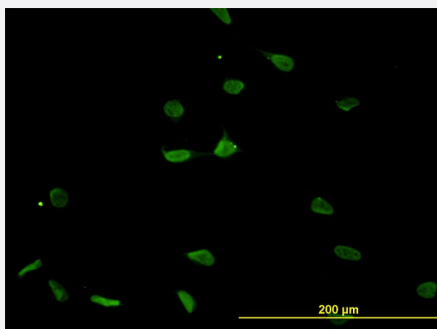
Immunoprecipitation

Immunoprecipitation of PSMB8 transfected lysate using anti-PSMB8 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with PSMB8 MaxPab rabbit polyclonal antibody.

Sandwich ELISA (Recombinant protein)

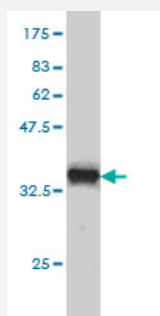
Detection limit for recombinant GST tagged PSMB8 is approximately 1ng/ml as a capture antibody.





Immunofluorescence

Immunofluorescence of monoclonal antibody to PSMB8 on HeLa cell. [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (36.74 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant PSMB8.
Immunogen	PSMB8 (AAH01114, 173 a.a. ~ 272 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	DKKGPGLYYVDEHGTRLSGNMFSTGSGNTYAYGVMDSGYRPNLSPEEAYDLGRRAIAYATHRDSY SGGVNMYHMKEDGWVKVESTDVSDLLHQYREANQ
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (90); Rat (90)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Transfected lysate)

Western Blot analysis of PSMB8 expression in transfected 293T cell line by PSMB8 monoclonal antibody (M01), clone 1B3.

Lane 1: PSMB8 transfected lysate(29.8 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to PSMB8 on formalin-fixed paraffin-embedded human colon. [antibody concentration 3 ug/ml]

[Protocol Download](#)

- Immunoprecipitation

Immunoprecipitation of PSMB8 transfected lysate using anti-PSMB8 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with PSMB8 MaxPab rabbit polyclonal antibody.

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PSMB8 is approximately 1ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

Immunofluorescence of monoclonal antibody to PSMB8 on HeLa cell. [antibody concentration 10 ug/ml]

Gene Info — PSMB8

Entrez GeneID [5696](#)

GeneBank Accession# [BC001114](#)

Protein Accession#	AAH01114
Gene Name	PSMB8
Gene Alias	D6S216, D6S216E, LMP7, MGC1491, PSMB5i, RING10, beta5i
Gene Description	proteasome (prosome, macropain) subunit, beta type, 8 (large multifunctional peptidase 7)
Omim ID	177046
Gene Ontology	Hyperlink
Gene Summary	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. This gene is located in the class II region of the MHC (major histocompatibility complex). Expression of this gene is induced by gamma interferon and this gene product replaces catalytic subunit 3 (proteasome beta 5 subunit) in the immunoproteasome. Proteolytic processing is required to generate a mature subunit. Two alternative transcripts encoding two isoforms have been identified; both isoforms are processed to yield the same mature subunit. [provided by RefSeq]
Other Designations	OTTHUMP00000029420 OTTHUMP00000029421 OTTHUMP00000062981 low molecular weight protein 7 macropain subunit C13 multicatalytic endopeptidase complex subunit C13 protease component C13 proteasome (prosome, macropain) subunit beta type 8 (large multifunctiona

Publication Reference

- [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 and Differentiation 2011 Jun; 18(6):1071.

Application: WB, ICC, Human, SK-N-SH neuroblastoma

Pathway

- [Proteasome](#)

Disease

- [Acute Disease](#)

- [Alveolitis](#)
- [Arthritis](#)
- [Asthma](#)
- [Bronchiolitis](#)
- [Brucellosis](#)
- [Cardiovascular Diseases](#)
- [Coronary Disease](#)
- [Dermatitis](#)
- [Diabetes Mellitus](#)
- [Diseases in Twins](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hepatitis B](#)
- [Hepatitis C](#)
- [Hypertension](#)
- [Infant](#)
- [Lupus Erythematosus](#)
- [Multiple Sclerosis](#)
- [Papillomavirus Infections](#)
- [Psoriasis](#)
- [Respiratory Syncytial Virus Infections](#)
- [Spondylarthropathies](#)
- [Spondylitis](#)
- [Uterine Cervical Neoplasms](#)