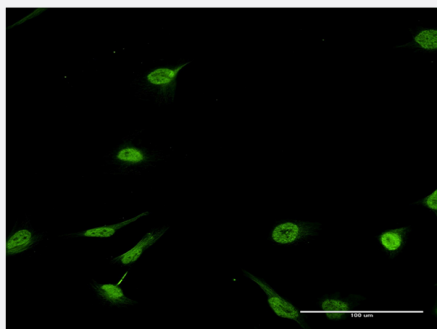


PSMB8 monoclonal antibody (M04), clone 2F4

Catalog # H00005696-M04

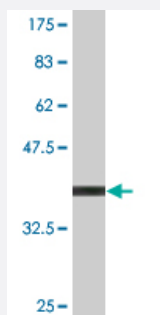
Size 100 ug

Applications



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 (Recombinant protein)

[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

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](#)