

PSMB1 mouse monoclonal antibody (hybridoma)

Catalog # H00005689-M

Size Up to 5 Clones

Specification

Product Description	Mouse monoclonal antibody raised against a full-length recombinant PSMB1.
Immunogen	PSMB1 (NP_002784.1, 1 a.a. ~ 241 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MLSSTAMYSAPGRDLGMEPHRAAGPLQLRFSPYVFNGGTILAIAGEDFAMASDTRLSEGFSIHTR DSPKCYKLTDKTVIGCSGFHGDCLTLTKIIIEARLKMYKHSNNKAMTTGAIAAMLSTILYSRRFFPYV YNIIGGLDEEGKGA VYSFDPVGSYQRDSFKAGGSASAMLQPLLDNQVGFKNMQNVEHVPLSLDR AMRLVKDVFISAAERDVYTG DALRICIVTKEGIREETVSLRKD
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (94); Rat (92)
Quality Control Testing	Antibody reactivity and specificity confirmed by ELISA and Western Blot.
Deliverables	Up to 5 positive hybridoma clones will be delivered to customer in the cryotube format.
Note	Customer should check the viability of the hybridomas within one month from the date of receipt. Fee -for-service of long term hybridoma storage can be performed upon customer's request.

Applications

- Western Blot (Transfected lysate)
[Protocol Download](#)
- Western Blot (Recombinant protein)
[Protocol Download](#)
- ELISA

Gene Info — PSMB1

Entrez GeneID [5689](#)

GeneBank Accession# [NM_002793.2](#)

Protein Accession# [NP_002784.1](#)

Gene Name PSMB1

Gene Alias FLJ25321, HC5, KIAA1838, PMSB1, PSC5

Gene Description proteasome (prosome, macropain) subunit, beta type, 1

Omim ID [602017](#)

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 tightly linked to the TBP (TATA-binding protein) gene in human and in mouse, and is transcribed in the opposite orientation in both species. [provided by RefSeq]

Other Designations

macropain subunit C5|multicatalytic endopeptidase complex subunit C5|proteasome beta 1 subunit|proteasome component C5|proteasome gamma chain|proteasome subunit HC5

Pathway

- [Proteasome](#)

Disease

- [Diabetes Mellitus](#)
- [Genetic Predisposition to Disease](#)
- [Kidney Failure](#)