

PSMC5 mouse monoclonal antibody (hybridoma)

Catalog # H00005705-M

Size Up to 5 Clones

Specification

Product Description	Mouse monoclonal antibody raised against a full-length recombinant PSMC5.
Immunogen	PSMC5 (NP_002796.4, 1 a.a. ~ 406 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MALDGPEQMELEEGKAGSGLRQYYLSKIEELQLVNDKSQNLRRLLQAQRNELNAKVRLLREELQL LQEQGSYVGEVVRAMDKKKVLVKVHPEGKFVVDVDKNIDINDVTPNCRVALRNDSTLHKILPNK VDPLVSLMMVEKVPDSTYEMIGGLDKQKEIKEVIELPVKHPELFEALGIAQPKGVLVYGPPTGKT LLARAVAHHTDCTFIRVSGSELVQKFIDGEARMVRELFVMAREHAPSIIFMDEIDSIGSSRLEGGSG GDSEVQRTMLELLNQLDGFATKNIVMATNRIDILDSALLRPGRIDRKIEFPPNNEEARLDILKIHS RKMNLTRGINLRKIAELMPGASGAEVKGVCTEAGMYALRERRVHVTQEDFEMAVAKVMQKDSEK NMSIKKLWK
Host	Mouse
Reactivity	Human
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 — PSMC5

Entrez GeneID [5705](#)

GeneBank Accession# [NM_002805.4](#)

Protein Accession# [NP_002796.4](#)

Gene Name PSMC5

Gene Alias S8, SUG1, TBP10, TRIP1, p45, p45/SUG

Gene Description proteasome (prosome, macropain) 26S subunit, ATPase, 5

Omim ID [601681](#)

Gene Ontology [Hyperlink](#)

Gene Summary

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 one of the ATPase subunits, a member of the triple-A family of ATPases which have a chaperone-like activity. In addition to participation in proteasome functions, this subunit may participate in transcriptional regulation since it has been shown to interact with the thyroid hormone receptor and retinoid X receptor-alpha. [provided by RefSeq]

Other Designations MSUG1 protein|Tat-binding protein homolog 10|proteasome 26S ATPase subunit 5|proteasome subunit p45|thyroid receptor interactor 1

Pathway

- [Proteasome](#)