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PSMB2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20507b

Product Information

Application	WB, IHC-P, E
Primary Accession	P49721
Other Accession	P40307, Q9R1P3
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	22836
Antigen Region	133-163

Additional Information

Gene ID	5690
Other Names	Proteasome subunit beta type-2, Macropain subunit C7-I, Multicatalytic endopeptidase complex subunit C7-I, Proteasome component C7-I, PSMB2
Target/Specificity	This PSMB2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 133-163 amino acids from the C-terminal region of human PSMB2.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PSMB2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PSMB2 (HGNC:9539)
Function	Non-catalytic component of the 20S core proteasome complex involved in the proteolytic degradation of most intracellular proteins. This complex plays numerous essential roles within the cell by associating with different

regulatory particles. Associated with two 19S regulatory particles, forms the 26S proteasome and thus participates in the ATP-dependent degradation of ubiquitinated proteins. The 26S proteasome plays a key role in the maintenance of protein homeostasis by removing misfolded or damaged proteins that could impair cellular functions, and by removing proteins whose functions are no longer required. Associated with the PA200 or PA28, the 20S proteasome mediates ubiquitin-independent protein degradation. This type of proteolysis is required in several pathways including spermatogenesis (20S-PA200 complex) or generation of a subset of MHC class I-presented antigenic peptides (20S-PA28 complex).

Cellular Location

Cytoplasm. Nucleus. Note=Translocated from the cytoplasm into the nucleus following interaction with AKIRIN2, which bridges the proteasome with the nuclear import receptor IPO9

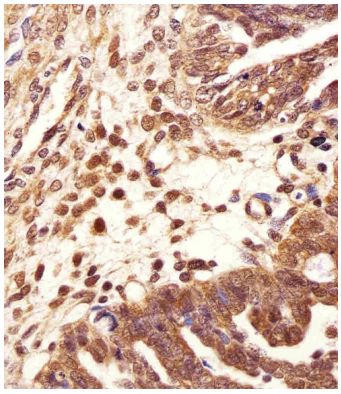
Background

The proteasome is a multicatalytic proteinase complex which is characterized by its ability to cleave peptides with Arg, Phe, Tyr, Leu, and Glu adjacent to the leaving group at neutral or slightly basic pH. The proteasome has an ATP-dependent proteolytic activity. This subunit has a trypsin-like activity.

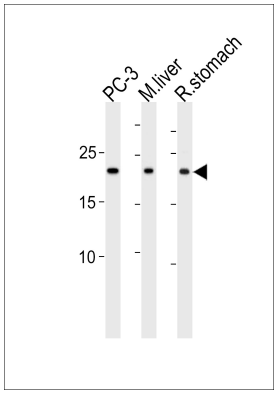
References

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Kristensen P., et al. Biochem. Biophys. Res. Commun. 205:1785-1789(1994).
Apcher G.S., et al. FEBS Lett. 553:200-204(2003).
Nothwang H.G., et al. Biochim. Biophys. Acta 1219:361-368(1994).

Images



Immunohistochemical analysis of paraffin-embedded H. ovarian carcinoma section using PSMB2 Antibody (C-term)(Cat#AP20507B). AP20507B was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.



PSMB2 Antibody (C-term) (Cat. #AP20507b) western blot analysis in PC-3 cell line,mouse liver and rat stomach tissue lysates (35ug/lane).This demonstrates the PSMB2 antibody detected the PSMB2 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.