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PSMB3 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5633

Product Information

Application	WB
Primary Accession	P49720
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	22949
Isotype	Rabbit IgG
Antigen Source	HUMAN

Additional Information

Gene ID	5691
Antigen Region	150-185
Other Names	Proteasome subunit beta type-3, Proteasome chain 13, Proteasome component C10-II, Proteasome theta chain, PSMB3
Dilution	WB~~1:2000
Target/Specificity	This PSMB3 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 150-185 amino acids from the Central region of human PSMB3.
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	PSMB3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PSMB3 (HGNC:9540)
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

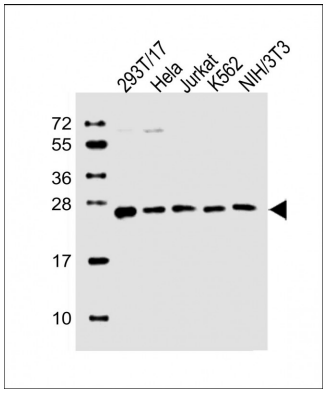
Background

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.

References

Nothwang H.G.,et al.Biochim. Biophys. Acta 1219:361-368(1994).
Bienvenut W.V.,et al.Submitted (JUL-2008) to UniProtKB.
Lubec G.,et al.Submitted (MAR-2007) to UniProtKB.
Rasmussen H.H.,et al.Electrophoresis 13:960-969(1992).
Kristensen P.,et al.Biochem. Biophys. Res. Commun. 205:1785-1789(1994).

Images



All lanes : Anti-PSMB3 Antibody (Center) at 1:2000 dilution Lane 1: 293T/17 whole cell lysate Lane 2: Hela whole cell lysate Lane 3: Jurkat whole cell lysate Lane 4: K562 whole cell lysate Lane 5: NIH/3T3 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 23 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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