

PSMB4 antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI13947**Specification**

PSMB4 antibody - middle region - Product Information

Application	WB
Primary Accession	P28070
Other Accession	NM_002796 , NP_002787
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog
Predicted Host	Rat, Rabbit, Pig, Guinea Pig, Dog
Clonality	Rabbit
Calculated MW	Polyclonal 29kDa KDa

PSMB4 antibody - middle region - Additional Information**Gene ID** 5692**Alias Symbol** HN3, HsN3, PROS26, PROS-26**Other Names**

Proteasome subunit beta type-4, 3.4.25.1, 26 kDa prosomal protein, HsBPROS26, PROS-26, Macropain beta chain, Multicatalytic endopeptidase complex beta chain, Proteasome beta chain, Proteasome chain 3, HsN3, PSMB4, PROS26

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-PSMB4 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

PSMB4 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

PSMB4 antibody - middle region - Protein Information**Name** PSMB4**Synonyms** PROS26**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). SMAD1/OAZ1/PSMB4 complex mediates the degradation of the CREBBP/EP300 repressor SNIP1.

Cellular Location

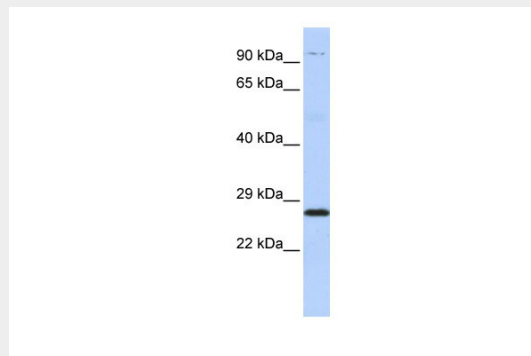
Cytoplasm. Nucleus. Note=Translocated from the cytoplasm into the nucleus following interaction with AKIRIN2, which bridges the proteasome with the nuclear import receptor IPO9

PSMB4 antibody - middle region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PSMB4 antibody - middle region - Images



WB Suggested Anti-PSMB4 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:312500
Positive Control: HepG2 cell lysate

PSMB4 antibody - middle region - References

Nothwang H.G., et al. Biochim. Biophys. Acta 1219:361-368(1994).
Ota T., et al. Nat. Genet. 36:40-45(2004).
Ebert L., et al. Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
Kalnina N., et al. Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases.
Gregory S.G., et al. Nature 441:315-321(2006).