

**PSMB3 Antibody (internal region)**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF3312a****Specification**

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**PSMB3 Antibody (internal region) - Product Information**

Application	WB, E
Primary Accession	<a href="#">P49720</a>
Other Accession	<a href="#">NP_002786.2</a> , <a href="#">5691</a> , <a href="#">26446 (mouse)</a> , <a href="#">29676 (rat)</a>
Reactivity	Human
Predicted	Mouse, Rat, Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	22949

**PSMB3 Antibody (internal region) - Additional Information****Gene ID** 5691**Other Names**

Proteasome subunit beta type-3, 3.4.25.1, Proteasome chain 13, Proteasome component C10-II, Proteasome theta chain, PSMB3

**Dilution**

WB~~1:1000

E~~N/A

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

PSMB3 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**PSMB3 Antibody (internal region) - 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

#### **PSMB3 Antibody (internal 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](#)

#### **PSMB3 Antibody (internal region) - Images**



AF3312a (1 µg/ml) staining of K562 lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

#### **PSMB3 Antibody (internal region) - References**

Large-scale mapping of human protein-protein interactions by mass spectrometry. Ewing RM, Chu P, Elisma F, Li H, Taylor P, Climie S, McBroom-Cerajewski L, Robinson MD, O'Connor L, Li M, Taylor R, Dharsee M, Ho Y, Heilbut A, Moore L, Zhang S, Ornatsky O, Bukhman YV, Ethier M, Sheng Y,

Vasilescu J, Abu-Farha M, Lambert JP, Duewel HS, S Molecular systems biology 2007 3 : 89. PMID: 17353931