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PSMB3 Antibody (internal region)

Peptide-affinity purified goat antibody
Catalog # AF3312a

Specification

PSMB3 Antibody (internal region) - Product Information

Application	**WB, E**
Primary Accession	P49720
Other Accession	NP_002786.2, 5691, 26446 (mouse), 29676 (rat)
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 Cytomety
- 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