10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PSMA4 Antibody (internal region)

Peptide-affinity purified goat antibody

Catalog # AF3306a

Specification

PSMA4 Antibody (internal region) - Product Information

Application	**WB**
Primary Accession	P25789
Other Accession	NP_002780.1, NP_001096138.1, 5685, 26441 (mouse), 29671 (rat)
Reactivity	**Human, Mouse, Rat**
Predicted	**Dog**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5 mg/ml**
Isotype	**IgG**
Calculated MW	**29484**

PSMA4 Antibody (internal region) - Additional Information

Gene ID 5685

Other Names
Proteasome subunit alpha type-4, 3.4.25.1, Macropain subunit C9, Multicatalytic endopeptidase complex subunit C9, Proteasome component C9, Proteasome subunit L, PSMA4, HC9, PSC9

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
PSMA4 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

PSMA4 Antibody (internal region) - Protein Information

Name PSMA4

Synonyms HC9, PSC9

Function
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).

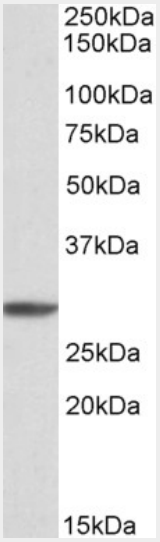
Cellular Location
Cytoplasm. Nucleus. Note=Translocated from the cytoplasm into the nucleus following interaction with AKIRIN2, which bridges the proteasome with the nuclear import receptor IPO9 (PubMed:34711951) Colocalizes with TRIM5 in the cytoplasmic bodies (By similarity) {ECO:0000250|UniProtKB:Q9R1P0, ECO:0000269|PubMed:34711951}

PSMA4 Antibody (internal region) - Protocols

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

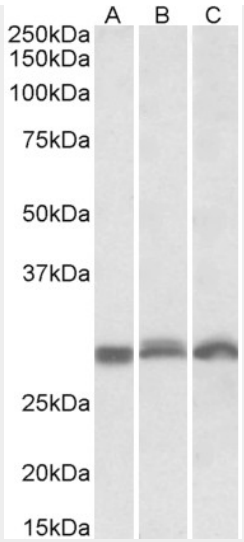
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PSMA4 Antibody (internal region) - Images



EB010277 (1 µg/ml) staining of K562 cell lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



EB010277 (0.3 µg/ml) staining of NIH3T3 (A), Mouse Spleen (B), Rat Spleen (C)) lysates (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

PSMA4 Antibody (internal region) - Background

This antibody is expected to recognize both reported isoforms (NP_002780.1; NP_001096138.1). Reported variants represent identical protein: NP_002780.1, NP_001096137.1

PSMA4 Antibody (internal region) - References

Association of genetic variants with hemorrhagic stroke in Japanese individuals. Yoshida T, Kato K, Yokoi K, Oguri M, Watanabe S, Metoki N, Yoshida H, Satoh K, Aoyagi Y, Nozawa Y, Yamada Y, International journal of molecular medicine 2010 Apr 25 (4): 649-56. PMID: 20198315