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PSMA1 antibody - C-terminal region
Rabbit Polyclonal Antibody
Catalog # AI11746

Specification

PSMA1 antibody - C-terminal region - Product Information

Application	**WB, IHC**
Primary Accession	P25786
Other Accession	NM_002786, NP_002777
Reactivity	**Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Horse, Bovine, Dog**
Predicted	**Human, Mouse, Zebrafish, Chicken, Horse, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**29kDa KDa**

PSMA1 antibody - C-terminal region - Additional Information

Gene ID 5682

Alias Symbol	**HC2, MGC14542, MGC14575, MGC14751, MGC1667, MGC21459, MGC22853, MGC23915, NU, PROS30**

Other Names
Proteasome subunit alpha type-1, 3.4.25.1, 30 kDa prosomal protein, PROS-30, Macropain subunit C2, Multicatalytic endopeptidase complex subunit C2, Proteasome component C2, Proteasome nu chain, PSMA1, HC2, NU, PROS30, PSC2

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-PSMA1 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
PSMA1 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

PSMA1 antibody - C-terminal region - Protein Information

Name PSMA1 (HGNC:9530)

Synonyms HC2, NU, PROS30, PSC2

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).

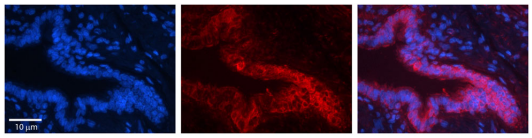
Cellular Location
Cytoplasm. Nucleus. Note=Translocated from the cytoplasm into the nucleus following interaction with AKIRIN2, which bridges the proteasome with the nuclear import receptor IPO9

PSMA1 antibody - C-terminal 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

PSMA1 antibody - C-terminal region - Images



Rabbit Anti-PSMA1 Antibody
Catalog Number: AI11746
Formalin Fixed Paraffin Embedded Tissue: Human Bronchial Epithelial Tissue Observed Staining: Cytoplasmic
Primary Antibody
Concentration: 1:100
Secondary Antibody: Donkey anti-Rabbit-Cy3
Secondary Antibody
Concentration: 1:200
Magnification: 20X
Exposure Time: 0.5 - 2.0 sec

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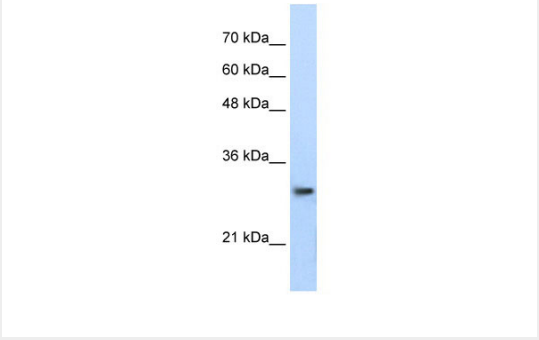
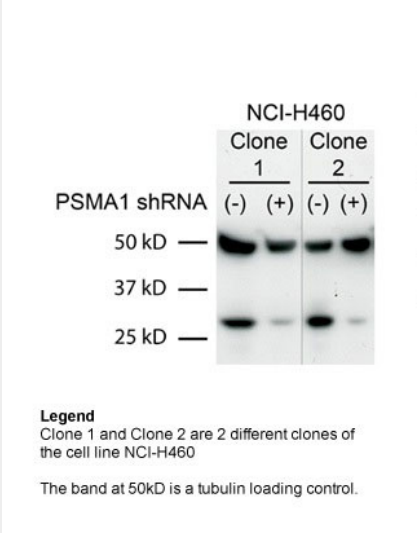


WB Suggested Anti-PSMA1 Antibody Titration: 0.2-1 µg/ml
Positive Control: Jurkat cell lysate



Sample Type: Human non-small cell lung cancer (NCI-460)Primary Dilution: 1:2000Secondary Dilution: 1:300050kDa band is a tubulin loading control bandPSMA1 is strongly supported by BioGPS gene expression data to be expressed in Human NCI460 cells

PSMA1 antibody - C-terminal region - References

Conticello,S.G., (2003) Curr. Biol. 13 (22), 2009-2013 Reconstitution and Storage:For short term use, store at 2-8C up to 1 week. For long term storage, store at -20C in small aliquots to prevent freeze-thaw cycles.Publications:Cron, K. R. et al. Proteasome inhibitors block DNA repair and radiosensitize non-small cell lung cancer. PLoS One 8, e73710 (2013). WB, Pig, Human, H, Rabbit, Rat, Guinea pig, Dog, Bovine, Mouse, Zebrafish24040035