

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

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**PSMA1 antibody - C-terminal region - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P25786</a>
Other Accession	<a href="#">NM_002786</a> , <a href="#">NP_002777</a>
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

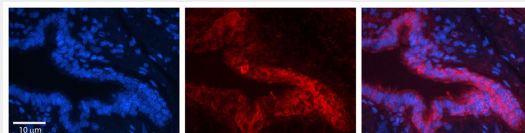
Cytoplasm. Nucleus. Note=Translocated from the cytoplasm into the nucleus following interaction with AKIRIN2, which bridges the proteasome with the nuclear import receptor IPO9

#### 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 Cytometry](#)
- [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

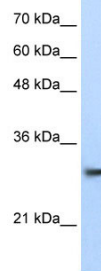
Secondary Antibody: Donkey anti-Rabbit-Cy3

Secondary Antibody

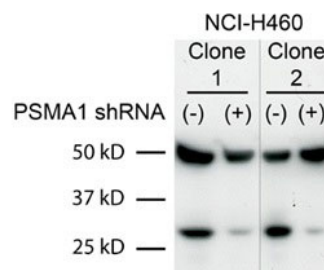
Concentration: 1:200

Magnification: 20X

Exposure Time: 0.5 - 2.0 sec



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



**Legend**  
Clone 1 and Clone 2 are 2 different clones of the cell line NCI-H460  
The band at 50kD is a tubulin loading control.

Sample Type: Human non-small cell lung cancer (NCI-460) Primary Dilution: 1:2000 Secondary Dilution: 1:3000 50kDa band is a tubulin loading control band PSMA1 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 2-8°C up to 1 week. For long term storage, store at -20°C 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, Zebrafish 24040035