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PSMA1 antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI11746

Product Information

Application	WB, IHC
Primary Accession	P25786
Other Accession	NM_002786, NP_002777
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Dog, Horse, Bovine
Predicted	Human, Mouse, Zebrafish, Chicken, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	29556

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.

Protein Information

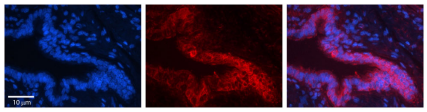
Name	PSMA1 (HGNC:9530)
Synonyms	HC2, NU, PROS30, PSC2
Function	Component of the 20S core proteasome complex involved in the proteolytic degradation of most intracellular proteins. This complex plays numerous essential roles within the cell by associating with different regulatory particles. Associated 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

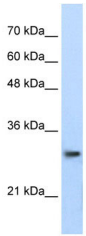
References

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

Images

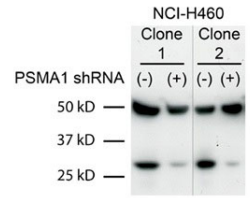


Rabbit Anti-PSMA1 Antibody
Catalog Number: AI11746
Formalin Fixed Paraffin Embedded Tissue: Human Bronchial Epithelial Tissue Observed Staining: Cytoplasmic
Primary Antibody Concentration: 1:100
Secondary Antibody: Donkey anti-Rabbit-Cy3 Secondary Antibody Concentration: 1:200
Magnification: 20X
Exposure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



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

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



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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.