

Rabbit anti-Human Proteasome subunit alpha type-7 Polyclonal Antibody | anti-PSMA7 antibody

Rabbit anti-human Proteasome subunit alpha type-7 polyclonal Antibody

CATALOG # AAA229171	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry, Western Blot, ELISA
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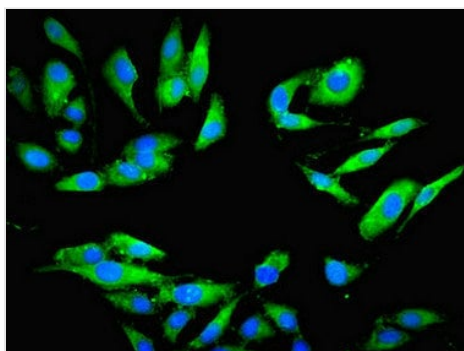
PRODUCT SYNONYMS

Proteasome subunit alpha type-7; Polyclonal Antibody; Rabbit anti-human Proteasome subunit alpha type-7 polyclonal Antibody; Proteasome subunit alpha type-7 protein; HSPC; PSMA7; Proteasome subunit RC6-1 Proteasome subunit XAPC7; anti-PSMA7 antibody

PRODUCT SPECIFICATIONS

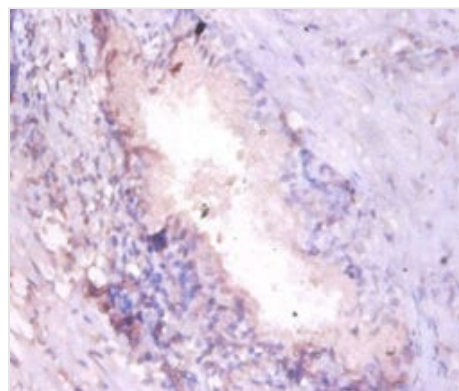
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Caprylic Acid Ammonium Sulfate Precipitation purified
Form/Format	Liquid
Sequence Length	248
Applicable Applications for anti-PSMA7 antibody	IHC (Immunohistochemistry), WB (Western Blot), ELISA
Immunogen	Recombinant human Proteasome subunit alpha type-7 protein
Conjugation	Non-conjugated
Storage Buffer	Preservative: 0.03% Proclin 300; Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-54728 / sc-67344
Preparation and Storage	Shipped at 4 degree C. Upon delivery, aliquot and store at -20 degree C or -80 degree C.

IMAGES



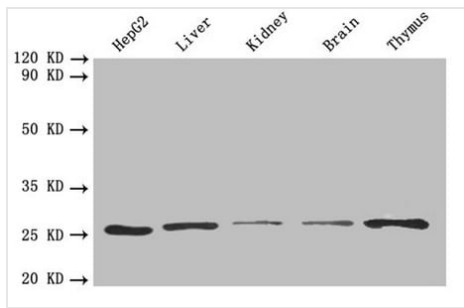
IF (Immunofluorescence)

Immunofluorescent analysis of HeLa cells using AAA229171 at a dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)



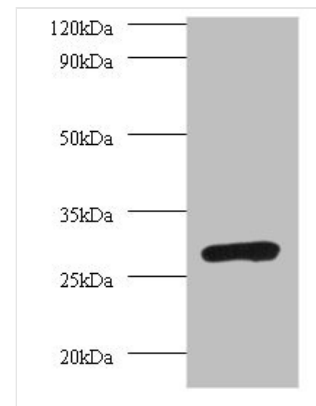
IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human prostate using AAA229171 at dilution of 1:100



WB (Western Blot)

Western blotAll lanes: PSMA7 antibody at 1.6 ug/mlLane 1: HepG-2 whole cell lysateLane 2: Mouse liver tissueLane 3: Mouse kidney tissueLane 4: Mouse brain tissueLane 5: Mouse thymus tissueSecondaryGoat polyclonal to rabbit IgG at 1/10000 dilutionPredicted band size: 28,21,17 kDaObserved band size: 27 kDa



WB (Western Blot)

All lanes: Proteasome subunit alpha type-7 antibody at 2ug/ml+293T whole cell lysateSecondaryGoat polyclonal to rabbit at 1/10000 dilutionPredicted band size: 28,21,17 kDaObserved band size: 27 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-PSMA7 antibody

The proteasome is a multicatalytic proteinase complex which is characterized by its ability to cleave peptides with Arg, Phe, Tyr, Leu, and Glu adjacent to the leaving group at neutral or slightly basic pH. The proteasome has an ATP-dependent proteolytic activity. Plays an important role in the regulation of cell proliferation or cell cycle control, transcriptional regulation, immune and stress response, cell differentiation, and apoptosis. Interacts with some important proteins involved in transcription factor regulation, cell cycle transition, viral replication and even tumor initiation and progression. Inhibits the transactivation function of HIF-1A under both normoxic and hypoxia-mimicking conditions. The interaction with EMAP2 increases the proteasome-mediated HIF-1A degradation under the hypoxic conditions. Plays a role in hepatitis C virus internal ribosome entry site-mediated translation. Mediates nuclear translocation of the androgen receptor (AR) and thereby enhances androgen-mediated transactivation. Promotes MAVS degradation and thereby negatively regulates MAVS-mediated innate immune response

The proteasome is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S core structure. The core structure is composed of 4 rings of 28 non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. An essential function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. This gene encodes a member of the peptidase T1A family, that is a 20S core alpha subunit. This particular subunit has been shown to interact specifically with the hepatitis B virus X protein, a protein critical to viral replication. In addition, this subunit is involved in regulating hepatitis virus C internal ribosome entry site (IRES) activity, an activity essential for viral replication. This core alpha subunit is also involved in regulating the hypoxia-inducible factor-1alpha, a transcription factor important for cellular responses to oxygen tension. Multiple isoforms of this subunit arising from alternative splicing may exist but alternative transcripts for only two isoforms have been defined. A pseudogene has been identified on chromosome 9.

Product Categories/Family for anti-PSMA7 antibody

[Immunology](#)

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506189
NCBI GeneID	5688
NCBI Accession #	NP_002783.1
NCBI GenBank Nucleotide #	NM_002792.3
UniProt Accession #	O14818 ; Q5JXJ2 ; Q9BR53 ; Q9H4K5 ; Q9UEU8 ; B2R515
Molecular Weight	16,135 Da
NCBI Official Full Name	proteasome subunit alpha type-7

NCBI Official Synonym Full Names	proteasome subunit alpha 7
NCBI Official Symbol	PSMA7
NCBI Official Synonym Symbols	C6; HSPC; RC6-1; XAPC7; HEL-S-276
NCBI Protein Information	proteasome subunit alpha type-7
UniProt Protein Name	Proteasome subunit alpha type-7
UniProt Gene Name	PSMA7
UniProt Synonym Gene Names	HSPC
UniProt Entry Name	PSA7_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/proteasome-subunit-alpha-type-7-antibody-immunohistochemistry-western-blot-elisa/229171>