

Rabbit anti-Human, Mouse PSMC1 Polyclonal Antibody | anti-PSMC1 antibody

Rabbit anti-PSMC1 Antibody, Affinity Purified

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA212297	Rabbit	Human, Mouse	Immunohistochemistry, Immunoprecipitation, Western Blot

PRODUCT SYNONYMS

PSMC1; Polyclonal Antibody; Rabbit anti-PSMC1 Antibody; Affinity Purified; p56; S4; Proteasome 26S subunit ATPase 1; proteasome (prosome; macropain) 26S subunit; ATPase; 1; P26S4; 26S proteasome regulatory subunit 4; 26S proteasome AAA-ATPase subunit RPT2; 26S protease regulatory subunit 4; proteasome 26S ATPase subunit 1; proteasome 26S subunit; ATPase 1; anti-PSMC1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Purity/Purification	Antigen Affinity Purified
Form/Format	Liquid. Whole IgG. Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09% Sodium Azide
Concentration	1000ug/ml (varies by lot)
Applicable Applications for anti-PSMC1 antibody	IHC (Immunohistochemistry), IP (Immunoprecipitation), WB (Western Blot)
Predicted Reactivity	Rat
Immunogen	Between 390 and C-terminus
Conjugation	Unconjugated
Preparation and Storage	Store at 2-8 degree C Shelf Life: 1 year from date of receipt

IMAGES



WB (Western Blot)

Detection of human and mouse PSMC1 by western blot (h and m) and immunoprecipitation (h). Samples: Whole cell lysate from HEK293T (15 and 50 ug for WB; 1 mg for IP, 20% of IP loaded), HeLa (H; 50 ug), Jurkat (J; 50 ug) and mouse NIH 3T3 (M; 50 ug) cells. Antibodies: Affinity purified rabbit anti-PSMC1 antibody AAA212297 used for WB at 0.1 ug/ml (A) and 1 ug/ml (B) and used for IP at 6 ug/mg lysate. PSMC1 was not successfully immunoprecipitated by rabbit anti-PSMC1 antibody which recognizes an upstream epitope. Detection: Chemiluminescence with exposure times of 3 minutes (A) and 10 seconds (B).



IHC (Immunohistochemistry)

Detection of human PSMC1 by immunohistochemistry. Sample: FFPE section of human ovarian carcinoma. Antibody: Affinity purified rabbit anti-PSMC1 (Cat. No. AAA212297 Lot1) used at a dilution of 1:1,000 (1ug/ml). Detection: DAB



IHC (Immunohistochemistry)

Detection of mouse PSMC1 by immunohistochemistry. Sample: FFPE section of mouse renal cell carcinoma. Antibody: Affinity purified rabbit anti-PSMC1 (Cat. No. AAA212297 Lot1) used at a dilution of 1:1,000 (1ug/ml). Detection: DAB

ADDITIONAL INFORMATION

Related Product Information for anti-PSMC1 antibody	Proteasome (prosome, macropain) 26S subunit, ATPase1 (PSMC1) is a subunit of the 26S proteasome, a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. The 20S core 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. The 19S regulator is composed of a base, which contains 6 ATPase subunits and 2 non-ATPase subunits, and a lid, which contains up to 10 non-ATPase 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. PSMC1 is one of the ATPase subunits, a member of the triple-A family of ATPases which have a chaperone-like activity. This subunit and a 20S core alpha subunit interact specifically with the hepatitis B virus X protein, a protein critical to viral replication. PSMC1 also interacts with the adenovirus E1A protein and this interaction alters the activity of the proteasome. Finally, PSMC1 interacts with ataxin-7, suggesting a role for the proteasome in the development of spinocerebellar ataxia type 7, a progressive neurodegenerative disorder [taken from NCBI Entrez Gene (Gene ID: 5700)].
Product Categories/Family for anti-PSMC1 antibody	Primary Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	24430151
NCBI GeneID	5700
NCBI Accession #	NP_002793.2
NCBI GenBank Nucleotide #	NM_002802.2
UniProt Accession #	P62191; P49014; Q03527; Q6IAW0; Q6NW36; Q96AZ3; B4DR63
Molecular Weight	49,185 Da
NCBI Official Full Name	26S protease regulatory subunit 4
NCBI Official Synonym Full Names	proteasome (prosome, macropain) 26S subunit, ATPase, 1
NCBI Official Symbol	PSMC1
NCBI Official Synonym Symbols	S4; p56; P26S4
NCBI Protein Information	26S protease regulatory subunit 4; proteasome 26S ATPase subunit 1; proteasome 26S subunit ATPase 1; proteasome 26S subunit, ATPase, 1; 26S proteasome AAA-ATPase subunit RPT2
UniProt Protein Name	26S protease regulatory subunit 4
UniProt Gene Name	PSMC1
UniProt Synonym Gene Names	P26s4
UniProt Entry Name	PRS4_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.