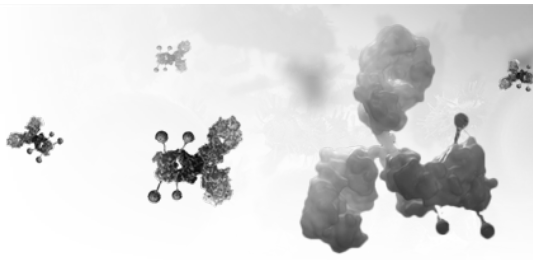

Rabbit Anti-Human PSMC1 Polyclonal Antibody (CABT-L2268)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Polyclonal Antibody to Proteasome 26S Subunit, ATPase 1 (Knockout Validated)
Specificity	The antibody is a rabbit polyclonal antibody raised against PSMC1. It has been selected for its ability to recognize PSMC1 in immunohistochemical staining and western blotting.
Target	PSMC1
Immunogen	Recombinant fragment corresponding to human PSMC1 (Met1~Leu440)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse
Purification	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
Conjugate	Unconjugated
Applications	WB
Format	Liquid
Concentration	Lot specific
Size	200 µg
Buffer	Supplied as solution form in 0.01M PBS with 50% glycerol, pH7.4.
Preservative	0.05% Proclin-300

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Storage	Avoid repeated freeze/thaw cycles. Store at 4°C for frequent use. Aliquot and store at -20°C for 12 months.
Ship	4°C with ice bags

BACKGROUND

Introduction	The 26S proteasome is 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. This gene encodes 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. This subunit also interacts with the adenovirus E1A protein and this interaction alters the activity of the proteasome. Finally, this subunit interacts with ataxin-7, suggesting a role for the proteasome in the development of spinocerebellar ataxia type 7, a progressive neurodegenerative disorder. [provided by RefSeq, Jul 2008]
Keywords	P26S4;S4;p56;26S proteasome AAA-ATPase subunit RPT2;26S protease regulatory subunit 4

GENE INFORMATION

Gene Name	PSMC1 proteasome (prosome, macropain) 26S subunit, ATPase, 1 [Homo sapiens (human)]
Official Symbol	PSMC1
Synonyms	PSMC1; proteasome (prosome, macropain) 26S subunit, ATPase, 1; S4; p56; P26S4; 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;
Entrez Gene ID	5700
Protein Refseq	NP_002793
UniProt ID	P62191
Chromosome Location	14q32.11
Pathway	AMER1 mutants destabilize the destruction complex; APC truncation mutants are not K63

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	polyubiquitinated; APC truncation mutants have impaired AXIN binding; APC/C-mediated degradation of cell cycle proteins; APC/C:Cdc20 mediated degradation of Securin; APC/C:Cdc20 mediated degradation of mitotic proteins; APC/C:Cdh1 mediated degradation of Cdc20 and other APC/C:Cdh1 targeted proteins in late mitosis/early G1; APC:Cdc20 mediated degradation of cell cycle proteins prior to satisfation of the cell c
Function	ATP binding; ATPase activity; TBP-class protein binding; poly(A) RNA binding; protein binding;

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