

## Datasheet for ABIN7600620 anti-PSMC1 antibody (AA 21-440)



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Quantity:	100 μg	
Target:	PSMC1	
Binding Specificity:	AA 21-440	
Reactivity:	Human, Mouse, Rat	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This PSMC1 antibody is un-conjugated	
Application:	Western Blotting (WB), ELISA, Immunocytochemistry (ICC), Immunofluorescence (IF), Flow Cytometry (FACS)	

## **Product Details**

Purpose:	Anti-PSMC1 Antibody Picoband®	
Immunogen:	E.coli-derived human PSMC1 recombinant protein (Position: K21-L440). Human PSMC1 shares 100% amino acid (aa) sequence identity with both mouse and rat PSMC1.	
Characteristics:	Anti-PSMC1 Antibody Picoband® (ABIN7600620). Tested in WB, ICC/IF, Flow Cytometry, ELISA applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.	
Purification:	Immunogen affinity purified.	

## **Target Details**

Target:	PSMC1	
Alternative Name:	PSMC1 (PSMC1 Products)	
Background:	26S protease regulatory subunit 4, also known as 26S proteasome AAA-ATPase subunit Rpt2,	
	is an enzyme that in humans is encoded by the PSMC1 gene. 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	
	the development of spinocerebellar ataxia type 7, a progressive neurodegenerative disorder.	
Molecular Weight:	57 kDa	
Gene ID:	5700	
UniProt:	P62191	
Pathways:	Mitotic G1-G1/S Phases, DNA Replication, Synthesis of DNA, Ubiquitin Proteasome Pathway	
Application Details		
Application Notes:	Western blot, 0.25-0.5 μg/mL, Human, Mouse, Rat	
	Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human	
	Flow Cytometry (Fixed), 1-3 μg/1x10 <sup>6</sup> cells, Human	
	ELISA, 0.1-0.5 μg/mL, -	
	1. Aharoni, S., Proskorovski-Ohayon, R., Krishnan, R. K., Yogev, Y., Wormser, O., Hadar, N.,	
	Bakhrat, A., Alshafee, I., Gombosh, M., Agam, N., Gradstein, L., Shorer, Z., Zarivach, R., Eskin-	
	Schwartz, M., Abdu, U., Birk, O. S. PSMC1 variant causes a novel neurological syndrome. Clin.	

S protease is a member of a novel eukaryotic ATPase family. J. Biol. Chem. 267: 22699-22702,

## **Application Details**

	1992. 3. Gross, M. B. Personal Communication. Baltimore, Md. 2/17/2011.	
Restrictions:	For Research Use only	
Handling		
Format:	Lyophilized	
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.	
Concentration:	500 μg/mL	
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.	
Storage:	4 °C,-20 °C	
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month.  It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.	