

[Go to Product page](#)

Datasheet for ABIN7454963
anti-PSMC1 antibody (AA 390-440)

Overview

Quantity:	100 µg
Target:	PSMC1
Binding Specificity:	AA 390-440
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PSMC1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP), Immunohistochemistry (Formalin-fixed Paraffin-embedded Sections) (IHC (fp))

Product Details

Purpose:	Rabbit anti-PSMC1 Antibody, Affinity Purified
Immunogen:	between AA 390 and 440
Isotype:	IgG
Predicted Reactivity:	Rat
Purification:	Affinity Purified

Target Details

Target:	PSMC1
Alternative Name:	PSMC1 (PSMC1 Products)

Target Details

Background:	<p>Background: 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)].</p>
Gene ID:	5700
NCBI Accession:	NP_002793
UniProt:	P62191
Pathways:	Mitotic G1-G1/S Phases , DNA Replication , Synthesis of DNA , Ubiquitin Proteasome Pathway

Application Details

Application Notes:	<p>IHC: 1:500 - 1:2,000. Epitope retrieval with citrate buffer pH 6.0 is recommended for FFPE tissue sections.</p> <p>IP: 2 - 10 µg/mg lysate</p> <p>WB: 1:2,000 - 1:10,000</p>
Restrictions:	For Research Use only

Handling

Concentration:	1000 µg/mL
Buffer:	Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09 % Sodium Azide
Preservative:	Sodium azide

Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
--------------------	--

Storage:	4 °C
----------	------

Expiry Date:	12 months
--------------	-----------