Datasheet for ABIN7452963

anti-PSMC1 antibody (AA 50-100)

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Overview

Quantity:	100 µg
Target:	PSMC1
Binding Specificity:	AA 50-100
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PSMC1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Rabbit anti-PSMC1 Antibody, Affinity Purified
Immunogen:	Between AA 50 and 100
Isotype:	IgG
Predicted Reactivity:	Rat,D. melanogaster,Chicken
Purification:	Affinity Purified

Target Details

Target:	PSMC1
Alternative Name:	PSMC1 (PSMC1 Products)
Background:	Background: Proteasome (prosome, macropain) 26S subunit, ATPase1 (PSMC1) is a subunit of

Target Details

	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)].
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:	IP: Not recommended WB: 1:1,000 - 1:5,000
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
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C

Handling

Expiry Date:	12 months

