

Datasheet for ABIN6265373
anti-SUMO1 antibody (N-Term)

5 Images

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Overview

Quantity:	100 µL
Target:	SUMO1
Binding Specificity:	N-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SUMO1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunohistochemistry (IHC), Immunocytochemistry (ICC)

Product Details

Immunogen:	A synthesized peptide derived from human Sumo1, corresponding to a region within N-terminal amino acids.
Isotype:	IgG
Specificity:	Sumo1 Antibody detects endogenous levels of total Sumo1.
Predicted Reactivity:	Pig,Zebrafish,Bovine,Horse,Dog,Chicken
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).

Target Details

Target:	SUMO1
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Target Details

Alternative Name:	SUMO1 (SUMO1 Products)
Background:	<p>Description: Ubiquitin-like protein that can be covalently attached to proteins as a monomer or a lysine-linked polymer. Covalent attachment via an isopeptide bond to its substrates requires prior activation by the E1 complex SAE1-SAE2 and linkage to the E2 enzyme UBE2I, and can be promoted by E3 ligases such as PIAS1-4, RANBP2 or CBX4. This post-translational modification on lysine residues of proteins plays a crucial role in a number of cellular processes such as nuclear transport, DNA replication and repair, mitosis and signal transduction. Involved for instance in targeting RANGAP1 to the nuclear pore complex protein RANBP2. Covalently attached to the voltage-gated potassium channel KCNB1, this modulates the gating characteristics of KCNB1 (PubMed:19223394). Polymeric SUMO1 chains are also susceptible to polyubiquitination which functions as a signal for proteasomal degradation of modified proteins. May also regulate a network of genes involved in palate development. Covalently attached to ZFHX3 (PubMed:24651376).</p> <p>Gene: SUMO1</p>
Molecular Weight:	12kDa
Gene ID:	7341
UniProt:	P63165
Pathways:	M Phase , Positive Regulation of Endopeptidase Activity , Protein targeting to Nucleus , Ubiquitin Proteasome Pathway

Application Details

Application Notes:	WB: 1:500-1:3000, IHC: 1:50-1:200, IF/ICC: 1:100-1:500, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only

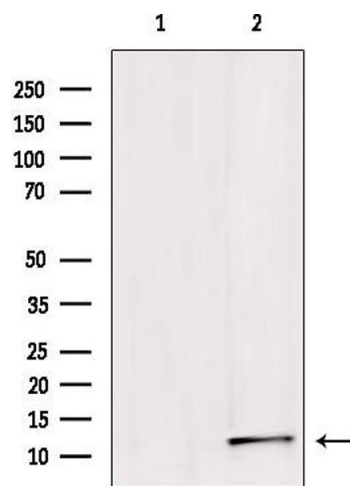
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

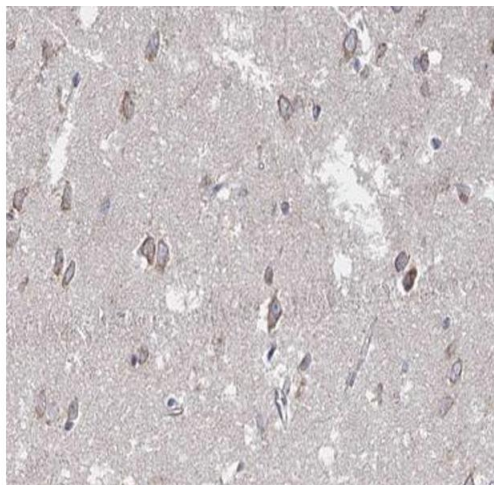
	should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

Images



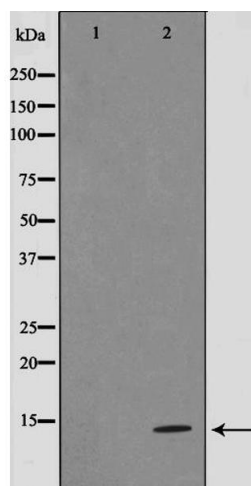
Western Blotting

Image 1. Western blot analysis of extracts from HepG2, using Sumo1 Antibody. Lane 1 was treated with the blocking peptide.



Immunohistochemistry

Image 2. ABIN6266661 at 1/100 staining human brain tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



Western Blotting

Image 3. Western blot analysis on 293 cell lysate using Sumo1 Antibody, The lane on the left is treated with the antigen-specific peptide.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN6265373.