Datasheet for ABIN7184508

anti-SUMO1 antibody (N-Term)

3 Images

Go to Product page

Overview

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

Product Details

Immunogen:	Synthesized peptide derived from N-terminal of Human SUMO-1.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Target Details

Target:	SUMO1
Alternative Name:	SUMO1 (SUMO1 Products)
Background:	Background: Ubiquitin-like protein that can be covalently attached to proteins as a monomer or

Target Details

	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. 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. Margarita Vigodner, Am J Physiol Endocrinol Metab, May 2006, 290: E1022 - E1033. Adrian Minty, J. Biol. Chem., Nov 2000, 275: 36316. Deborah A. Sampson, J. Biol. Chem., Jun 2001, 276: 21664 - 21669. Hidehisa Takahashi, J. Biol. Chem., Feb 2005, 280: 56 Aliases: DAP1 antibody, GAP modifying protein 1 antibody, GAP-modifying protein 1 antibody, GMP 1 antibody, GMP1 antibody, OFC10 antibody, PIC 1 antibody, PIC1 antibody, SENP2 antibody, Sentrin 1 antibody, Sentrin antibody, Small ubiquitin related modifier 1 antibody, Small ubiquitin-like modifier 1 antibody, Small ubiquitin-related modifier 1 antibody, SMT3 antibody, SMT3 homolog 3 antibody, SMT3 suppressor of mif two 3 homolog 1 antibody, SMT3, yeast, homolog 3 antibody, Smt3C antibody, SMT3H3 antibody, SUMO-1 antibody, SUMO1 antibody, SUMO1_HUMAN antibody, Ubiquitin homology domain protein PIC1 antibody, Ubiquitin Like 1 antibody, Ubiquitin like protein SMT3C antibody, Ubiquitin like protein UBL1 antibody, Ubiquitin-homology domain protein PIC1 antibody, Ubiquitin-like protein SMT3C antibody, Ubiquitin-like protein UBL1 antibody, UBL 1 antibody, UBL1 antibody
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:1:50-1:100, IF:1:100-1:500,
Restrictions:	For Research Use only

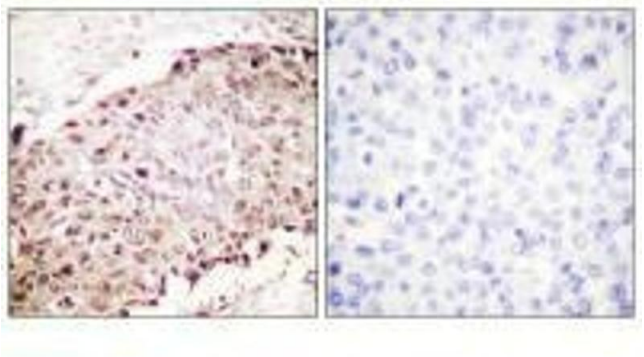
Handling

Format:	Liquid

Handling

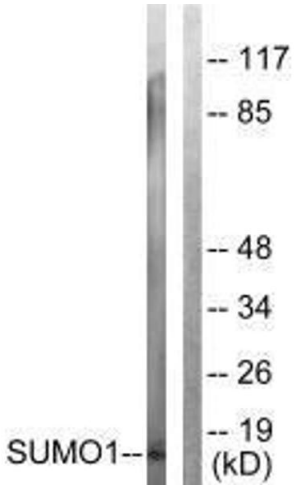
Buffer:	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



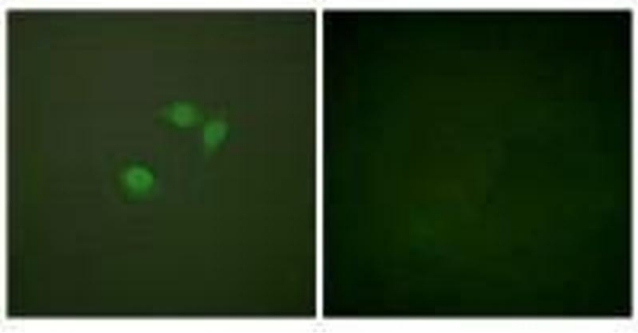
Immunohistochemistry

Image 1. Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue using Sumo1 antibody.



Western Blotting

Image 2. Western blot analysis of extracts from 293 cells, using Sumo1 antibody.



Immunofluorescence

Image 3. Immunofluorescence analysis of NIH/3T3 cells, using Sumo1 antibody.