Datasheet for ABIN500837

anti-SUMO1 antibody (N-Term)

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Overview

Quantity:	0.1 mg
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), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	Sumo antibody was raised against a 14 amino acid peptide from near the amino terminus of human sumo.
Isotype:	IgG
Specificity:	This antibody detects SUMO1. It will only recognize isoform 1.
Cross-Reactivity (Details):	Species reactivity (tested):Human, mouse, rat
Purification:	Peptide affinity chromatography

Target Details

Target:	SUMO1

Target Details

Alternative Name:	SUMO1 (SUMO1 Products)
Background:	The sumo family of proteins is related both structurally and functionally to ubiquitin in that they are post-translationally attached to the e-amino group of a lysine residue of the substrate protein. This sumoylation plays a number of roles in DNA replication and repair, protein targeting to various subnuclear structures, and the regulation of numerous cellular processes including the inflammatory response in mammalian cells. Sumo was initially identified as a covalent modification of RanGAP1 in studies on nuclear import in mammalian cells. More recently, sumo has been shown to be involved in the regulation of transcription factors, possibly by enhancing their interactions with co-repressors. Sumo is also thought to play some role in the modulation of ubiquitin-mediated degradation of proteins by acting as an inhibitor. At least four different isoforms of sumo are known to exist.Synonyms: GAP-modifying protein 1, GMP1, SMT3 homolog 3, SMT3C, SMT3H3, Sentrin, Small ubiquitin-related modifier 1, UBL1, Ubiquitin-homology domain protein PIC1, Ubiquitin-like protein SMT3C, Ubiquitin-like protein UBL1
Gene ID:	7341
Pathways:	M Phase, Positive Regulation of Endopeptidase Activity, Protein targeting to Nucleus, Ubiquitin Proteasome Pathway

Application Details

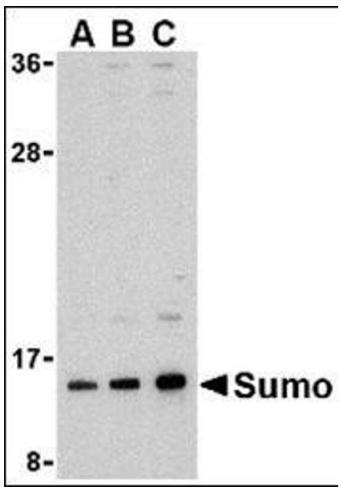
Application Notes:	ELISA. Immunohistochemistry on paraffin sections. Western blot: 0.5 - 1 µg/mL. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

Buffer:	PBS containing 0.02 % 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.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer.

Immunofluorescence

Image 1. Immunocytochemistry of Sumo in HL60 cells with this product at 5 µg/ml.



Western Blotting

Image 2. Western blot analysis of sumo in HL-60 cell lysate with this product at (A) 0.5, (B) 1, and (C) 2 µg/ml.