Datasheet for ABIN3032769

anti-SUMO1 antibody (AA 55-86)

6 Images

Go to Product page

Overview

Quantity:	0.4 mL
Target:	SUMO1
Binding Specificity:	AA 55-86
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SUMO1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS)

Product Details

Immunogen:	A portion of amino acids 55-86 from human SUMO1 was used as the immunogen for this SUMO antibody.
Isotype:	Ig Fraction
Cross-Reactivity (Details):	Expected species reactivity: Mouse, Rat, Bovine, Pig
Purification:	Purified

Target Details

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

Target Details

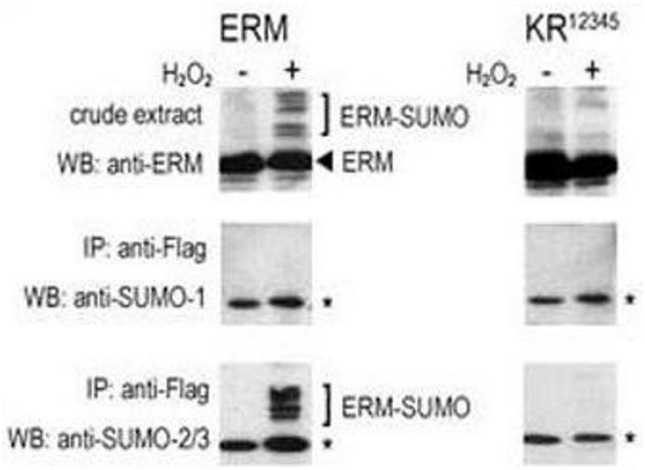
	linked polymer. Covalent attachment via an isopeptide bond to its substrates requires prior activation by the E1 complex SAE1-SAE2 and linkage to the E2 enzyme UBE2I, and can be promoted by E3 ligases such as PIAS1-4, RANBP2 or CBX4. This post-translational modification on lysine residues of proteins 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. 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. [UniProt]
UniProt:	P63165
Pathways:	M Phase, Positive Regulation of Endopeptidase Activity, Protein targeting to Nucleus, Ubiquitin Proteasome Pathway

Application Details

Application Notes:	Titration of the SUMO antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 1:1000,IHC (Paraffin): 1:50-1:100,Flow Cytometry: 1:10-1:50
Restrictions:	For Research Use only

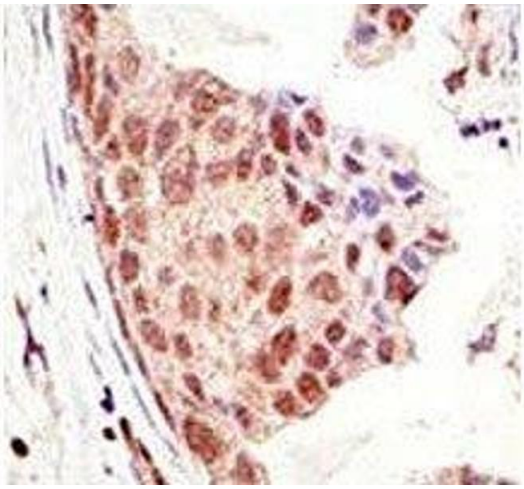
Handling

Format:	Liquid
Buffer:	In 1X PBS, pH 7.4, with 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:	-20 °C
Storage Comment:	Aliquot the SUMO antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.



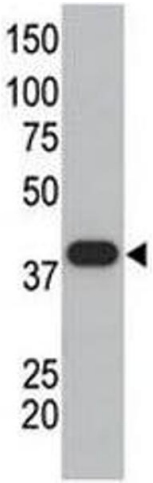
Western Blotting

Image 1. COS-7 cells were transfected for 24 hrs with a plasmid expressing FLAG-ERM (left panels) or FLAG-ERM KR12345 (right panels). Top: lysate tested with ERM Ab. Center: IP with FLAG Ab followed by WB with NSJ# F42008 SUMO antibody. Bottom: IP with FLAG Ab fol



Immunohistochemistry

Image 2. IHC analysis of FFPE human breast carcinoma tissue stained with the SUMO antibody



Western Blotting

Image 3. SUMO polyclonal antibody used in western blot to detect GST-SUMO1 fusion protein. Predicted molecular weight: 12-15 kDa + 25 kDa GST tag.

Please check the product details page for more images. Overall 6 images are available for ABIN3032769.