

Datasheet for ABIN3022994
anti-SUMO1 antibody (AA 1-101)



[Go to Product page](#)

5 Images

Overview

Quantity:	100 µL
Target:	SUMO1
Binding Specificity:	AA 1-101
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SUMO1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-101 of human SUMO1 (NP_003343.1).
Sequence:	MSDQEAKPST EDLGDKKEGE YIKLKVIGQD SSEIHFVKVM TTHLKCLKES YCQRQGVPMN SLRFLFEGQR IADNHTPKEL GMEEDVIEV YQEQTGGHST V
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

Target Details

Target:	SUMO1
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Target Details

Alternative Name:	SUMO1 (SUMO1 Products)
Background:	<p>This gene encodes a protein that is a member of the SUMO (small ubiquitin-like modifier) protein family. It functions in a manner similar to ubiquitin in that it is bound to target proteins as part of a post-translational modification system. However, unlike ubiquitin which targets proteins for degradation, this protein is involved in a variety of cellular processes, such as nuclear transport, transcriptional regulation, apoptosis, and protein stability. It is not active until the last four amino acids of the carboxy-terminus have been cleaved off. Several pseudogenes have been reported for this gene. Alternate transcriptional splice variants encoding different isoforms have been characterized.</p> <p>DAP1,GMP1,OFC10,PIC1,SEN2,SMT3,SMT3C,SMT3H3,UBL1,SUMO1,SUMO-1,Epigenetics & Nuclear Signaling,RNA Binding,Cell Biology & Developmental Biology,Autophagy,Ubiquitin,Endocrine & Metabolism,Mitochondrial metabolism,Immunology & Inflammation,IL-6 Receptor Signaling Pathway,NF-kB Signaling Pathway,Cardiovascular,Heart,SUMO1</p>
Molecular Weight:	8 kDa/11 kDa
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 - 1:2000,IHC,1:50 - 1:100,IF,1:50 - 1:200,IP,1:50 - 1:200
Restrictions:	For Research Use only

Handling

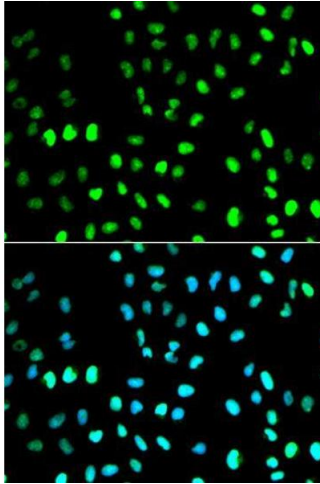
Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid freeze / thaw cycles

Handling

Storage: -20 °C

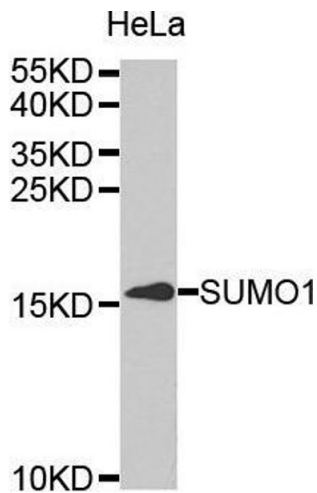
Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

Images



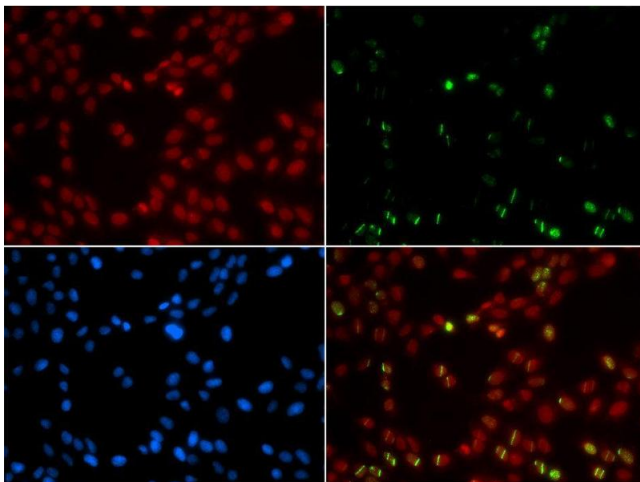
Immunofluorescence

Image 1. Immunofluorescence analysis of MCF7 cell using SUMO1 antibody. Blue: DAPI for nuclear staining.



Western Blotting

Image 2.



Immunofluorescence

Image 3. Immunofluorescence analysis of GFP-RNF168 transgenic U2OS cell using SUMO1 antibody. Green: *GFP-RNF168 fusion protein expression for DNA damage marker*. Blue: DAPI for nuclear staining. *RNF168(GFP) can be used to mark cells damaged by UV-A laser for they always gather around DNA damage region.*

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3022994.