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## anti-SUMO1 antibody



**Images** 



## Overview

Quantity:	100 μg
Target:	SUM01
Reactivity:	Human, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SUMO1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (IHC), Flow Cytometry (FACS), Staining Methods (StM)

## **Product Details**

Immunogen:	Recombinant human SUM01 protein
Clone:	SM1-495
Isotype:	IgG1 kappa
Specificity:	This MAb is specific to SUMO-1 and shows no cross-reaction with either SUMO-2 or SUMO-3.
	The small ubiquitin-related modifier (SUMO) proteins, which include SUMO-1, SUMO-2 and
	SUMO-3, belong to the ubiquitin-like protein family. Like ubiquitin, the SUMO proteins are
	synthesized as precursor proteins that undergo processing before conjugation to target
	proteins. Also, both utilize the E1, E2, and E3 cascade enzymes for conjugation. However,
	SUMO and ubiquitin differ with respect to targeting. Ubiquitination predominantly targets
	proteins for degradation, whereas sumoylation targets proteins to a variety of cellular
	processing, including nuclear transport, transcriptional regulation, apoptosis and protein
	stability. The unconjugated SUMO-1 protein localizes to the nuclear membrane.

# **Product Details** Cross-Reactivity (Details): Predicted to show a broad species reactivity. Purification: Purified by Protein A/G Target Details SUM01 Target: Alternative Name: SUM01 (SUM01 Products) Molecular Weight: 11.5kDa (Monomer), 90kDa (Heteromer) 7341 Gene ID: UniProt: P63165 M Phase, Positive Regulation of Endopeptidase Activity, Protein targeting to Nucleus, Ubiquitin Pathways: Proteasome Pathway **Application Details Application Notes:** Positive Control: Breast Carcinoma. Known Application: Flow Cytometry (1-2 µg/million cells), Immunofluorescence (1-2 µg/mL), Western Blot (1-2 µg/mL), Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined. Restrictions: For Research Use only Handling

# Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % 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: 4 °C,-80 °C

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200 μg/mL

Concentration:

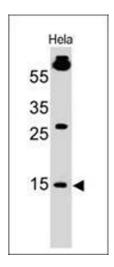
Storage Comment:

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody

Expiry Date:

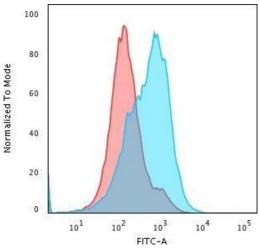
24 months

## **Images**



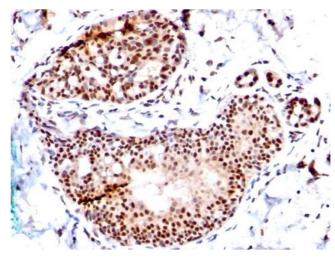
## **Western Blotting**

Image 1. Western Blot of HeLa cell lysate using SUMO1 Mouse Monoclonal Antibody (SM1/495)



## **Flow Cytometry**

**Image 2.** Flow Cytometric Analysis of paraformaldehyde-fixed HepG2 cells using SUMO-1 Mouse Monoclonal Antibody (SM1/495) followed by goat anti- Mouse- IgG-CF488 (Blue); Isotype Control (Red).



### **Immunohistochemistry**

**Image 3.** Formalin-fixed, paraffin-embedded human Breast Carcinoma stained with SUMO-1 Mouse Monoclonal Antibody (SM1/495)

Please check the product details page for more images. Overall 5 images are available for ABIN6940847.