SUMO4 Rabbit mAb

Catalog No: #49293

Package Size: #49293-1 50ul #49293-2 100ul



Orders: order@signalwayantibody.com Support: tech@signalwayantibody.com

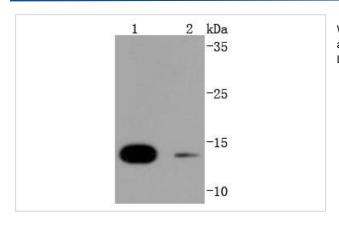
Description

Product Name	SUMO4 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal
Clone No.	JJ085-01
Purification	ProA affinity purified
Applications	WB, ICC/IF, IP, FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	dJ281H8.4 antibody IDDM5 antibody Small ubiquitin like modifier 4 protein antibody Small ubiquitin-like
	protein 4 antibody Small ubiquitin-related modifier 4 antibody SMT3 suppressor of mif two 3 homolog 2
	antibody SMT3 suppressor of mif two 3 homolog 4 (S. cerevisiae) antibody SMT3H4 antibody SUMO 4
	antibody SUMO-4 antibody SUMO4 antibody SUMO4_HUMAN antibody
Accession No.	Swiss-Prot#:Q6EEV6
Calculated MW	11 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

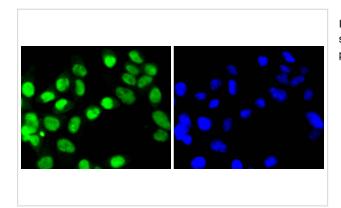
Application Details

WB: 1:1,000-1:2,000 ICC: 1:100-1:500FC: 1:50-1:100

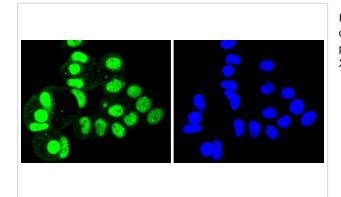
Images



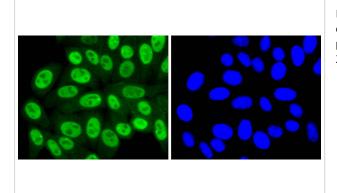
Western blot analysis of SUMO4 on different lysates using anti-SUMO4 antibody at 1/1,000 dilution. Positive control: Lane 1: 293T Lane 2: Jurkat



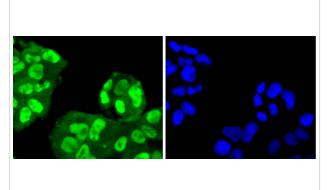
ICC staining SUMO4 in 293 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



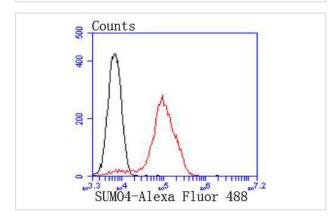
ICC staining SUMO4 in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining SUMO4 in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining SUMO4 in RH-35 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of 293 cells with SUMO4 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody

Background

The small ubiquitin-related modifier (SUMO) proteins, which include SUMO-1, SUMO-2, SUMO-3 and SUMO-4, 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. Ubiquitin and SUMO proteins 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 for a variety of cellular processing, including nuclear transport, transcriptional regulation, apoptosis and protein stability. The unconjugated SUMO-1, SUMO-2, SUMO-3 and SUMO-4 proteins localize to the nucleus. In contrast to the other SUMO proteins, SUMO-4 seems to be insensitive to sentrin-specific proteases due to the presence of Pro-90, which may impair processing to mature form and conjugation to substrates. It is suggested that defects in the gene that encodes for the SUMO-4 protein may be involved in the pathogenesis of type I diabetes.

References

Note: This product is for in vitro research use only and is not intended for use in humans or animals.