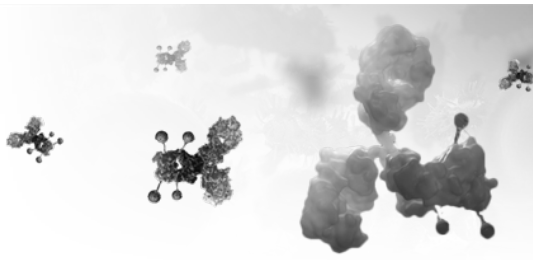

Rabbit Anti-SUMO4 monoclonal antibody, clone KK196-12 (CABT-L851)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Target	SUMO4
Immunogen	Recombinant protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Clone	KK196-12
Purification	Protein A purified.
Conjugate	Unconjugated
Applications	WB, ICC/IF, IP, FC
Molecular Weight	11 kDa
Positive Control	293T, MCF-7, 293, HepG2, Jurkat, RH-35.
Format	Liquid
Size	100 µl
Buffer	1×TBS (pH7.4), 1% BSA, 40% Glycerol.
Preservative	0.05% Sodium Azide
Storage	Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw

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cycles.

BACKGROUND

Introduction	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.
Keywords	dJ281H8.4;IDDM5;Small ubiquitin like modifier 4 protein;Small ubiquitin-like protein 4;Small ubiquitin-related modifier 4;SMT3 suppressor of mif two 3 homolog 2;SMT3 suppressor of mif two 3 homolog 4 (S. cerevisiae);SMT3H4;SUMO 4;SUMO-4;SUMO4;SUMO4_HUMAN antibody

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