

SUMO4 Polyclonal Antibody

Catalog NumberPA5-11361

Product data sheet

Details		Tested Applications	Dilution *
Size	400 µL	Immunohistochemistry (Paraffin) (IHC (P)) Western Blot (WB)	1:50-1:100
Host/Isotope	Rabbit / IgG		1:1,000
Class	Polyclonal	<div>* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.</div>	
Type	Antibody		
Immunogen	KLH conjugated synthetic peptide selected from the center region of human SUMO4		
Conjugate	Unconjugated		
Form	Liquid		
Concentration	Lot-specific		
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles		

Background/Target Information

SUMO4 is a member of the SUMO gene family. This family of small ubiquitin-related modifiers covalently modify target lysines in proteins and control the target proteins' subcellular localization, stability, or activity. Upon oxidative stress, SUMO4 conjugates to various anti-oxidant enzymes, chaperones, and stress defense proteins. This protein may also conjugate to NFKBIA, TFAP2A and FOS, negatively regulating their transcriptional activity, and to NR3C1, positively regulating its transcriptional activity. Covalent attachment to SUMO4 substrates requires prior activation by the E1 complex SAE1-SAE2 and linkage to the E2 enzyme UBE2I. In contrast to SUMO1, SUMO2 and SUMO3, SUMO4 seems to be insensitive to sentrin-specific proteases due to the presence of Pro-90. This may impair processing to mature form and conjugation to substrates. SUMO4 is located in the cytoplasm and specifically modifies IKBA, leading to negative regulation of NF-kappa-B-dependent transcription of the IL12B gene. The M55V substitution has been associated with type I diabetes.

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