

Datasheet for ABIN2452136

anti-SUMO1 antibody (full length) (FITC)





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Quantity:	50 μg	
Target:	SUM01	
Binding Specificity:	full length	
Reactivity:	Human	
Host:	Rat	
Clonality:	Monoclonal	
Conjugate:	This SUMO1 antibody is conjugated to FITC	
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))	

Product Details

Immunogen:	Recombinant GST-fused human SUMO-1 (full length)	
Clone:	4D12	
Isotype:	IgG2a kappa	
Specificity:	Specific to human, simian, mouse and rat SUMO1.	
Cross-Reactivity (Details):	Not tested for other species	
Purification:	The antibody was produced in serum-free medium and purified by proprietary chromatography procedures under mild conditions and conjugated with FITC.	
Sterility:	Sterile filtered	

Target Details

Target:	SUM01	
Alternative Name:	SUM01 (SUM01 Products)	
Background:	SUMO (Small Ubiquitin-like Modifier) proteins are a family of small proteins that are covaled attached to and detached from other proteins in cells to modify their function. Unlike ubiquitination, which targets proteins for degradation, SUMO modification plays a critical real number of cellular functions including nucleocytoplasmic transport, gene expression, celected and formation of subnuclear structures such as promyelocytic leukemia (PML) bodied. There are three confirmed SUMO isoforms in human, SUMO1, SUMO2 and SUMO3. SUMO3 show a high degree of similarity to each other and are distinct from SUMO-1. Individual SUM family members are all targeted to different proteins with diverse biological functions. SUM is conjugated to RanGAP, PML, p53 and IkappaB-alpha to regulate nuclear trafficking, form of subnuclear structures, regulation of transcriptional activity and protein stability. SUMO1 encoded as a 101 aa protein and first Met and C-terminal 4 aa are removed from the preprint.	
UniProt:	P63165	
Pathways:	M Phase, Positive Regulation of Endopeptidase Activity, Protein targeting to Nucleus, Ubiquitin Proteasome Pathway	
Application Details		
Application Notes:	Immunofluorescence staining: 1/100 dilution Immunohistochemistry,frozen section: 1/100 dilution	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Concentration:	1 mg/mL	
Buffer:	PBS (x1), 50 % glycerol. Azide and carrier free.	
Preservative:	Azide free	
Storage:	-20 °C	
Publications		
Product cited in:	Ulrich: "The fast-growing business of SUMO chains." in: Molecular cell , Vol. 32, Issue 3, pp. 301-	

5, (2008) (PubMed).

Saitoh, Uchimura, Tachibana, Sugahara, Saitoh, Nakao: "In situ SUMOylation analysis reveals a modulatory role of RanBP2 in the nuclear rim and PML bodies." in: **Experimental cell research**, Vol. 312, Issue 8, pp. 1418-30, (2006) (PubMed).

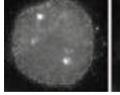
Cheng, Bawa, Lee, Gong, Yeh: "Role of desumoylation in the development of prostate cancer." in: **Neoplasia (New York, N.Y.)**, Vol. 8, Issue 8, pp. 667-76, (2006) (PubMed).

Uchimura, Ichimura, Uwada, Tachibana, Sugahara, Nakao, Saitoh: "Involvement of SUMO modification in MBD1- and MCAF1-mediated heterochromatin formation." in: **The Journal of biological chemistry**, Vol. 281, Issue 32, pp. 23180-90, (2006) (PubMed).

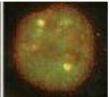
Images

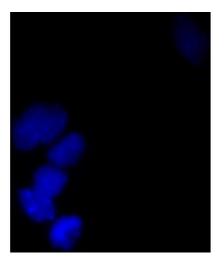
Immunofluorescence

Image 1.



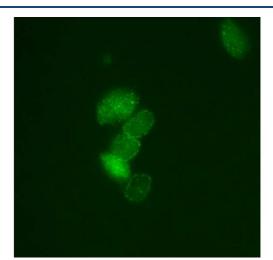






Immunofluorescence

Image 2.



Immunofluorescence

Image 3.