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SUMO-1 rabbit pAb

Cat No.:ES3526

For research use only

Overview

Product Name	SUMO-1 rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Mouse;Rat
Recommended dilutions	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human Sumo1. AA range:1-50
Specificity	SUMO-1 Polyclonal Antibody detects endogenous levels of SUMO-1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Small ubiquitin-related modifier 1
Gene Name	SUMO1
Cellular localization	Nucleus membrane . Nucleus speckle . Cytoplasm . Nucleus, PML body . Cell membrane . Nucleus . Recruited by BCL11A into the nuclear body (By similarity). In the presence of ZFHX3, sequesterd to nuclear body (NB)-like dots in the nucleus some of which overlap or closely associate with PML body (PubMed:24651376). .
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	12kD
Human Gene ID	7341
Human Swiss-Prot Number	P63165
Alternative Names	SUMO1; SMT3C; SMT3H3; UBL1; OK/SW-cl.43; Small

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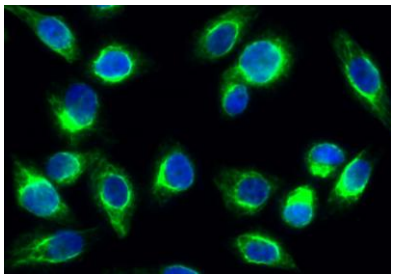
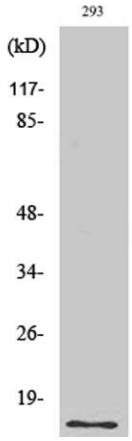
ubiquitin-related modifier 1; SUMO-1;
GAP-modifying protein 1; GMP1; SMT3 homolog 3;
Sentrin; Ubiquitin-homology domain protein PIC1;
Ubiquitin-like protein SMT3C; Smt3C; Ubiquitin-like
protein

Background

This gene encodes a protein that is a member of the SUMO (small ubiquitin-like modifier) protein family. It functions in a manner similar to ubiquitin in that it is bound to target proteins as part of a post-translational modification system. However, unlike ubiquitin which targets proteins for degradation, this protein is involved in a variety of cellular processes, such as nuclear transport, transcriptional regulation, apoptosis, and protein stability. It is not active until the last four amino acids of the carboxy-terminus have been cleaved off. Several pseudogenes have been reported for this gene. Alternate transcriptional splice variants encoding different isoforms have been characterized. [provided by RefSeq, Jul 2008],



Immunofluorescence analysis of Hela cell. 1,SUMO-1 Polyclonal Antibody(green) was diluted at 1:200(4° overnight). 2, Goat Anti Rabbit Alexa Fluor 488 Catalog:RS3211 was diluted at 1:1000(room temperature, 50min). 3 DAPI(blue) 10min.



Western Blot analysis of various cells using SUMO-1 Polyclonal Antibody

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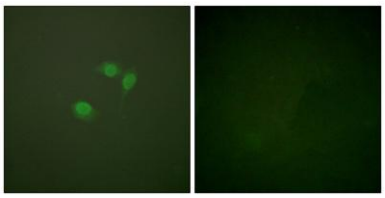
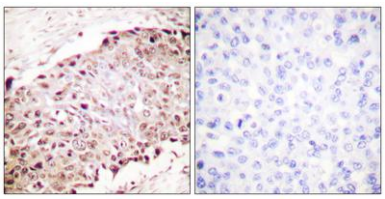
Immunofluorescence analysis of NIH/3T3 cells, using Sumo1 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using Sumo1 Antibody. The picture on the right is blocked with the synthesized peptide.



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