

Anti-SUMO1 Antibody (3N929)

Product Details

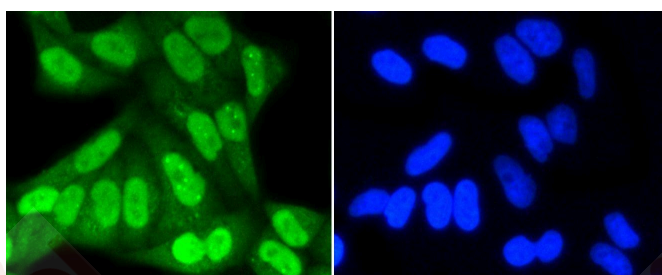
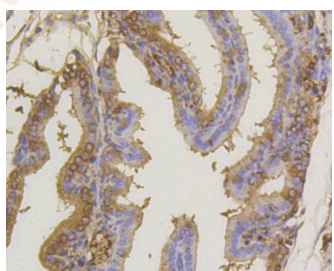
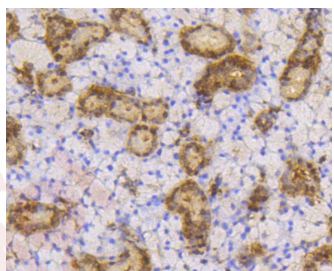
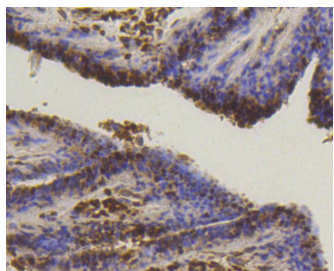
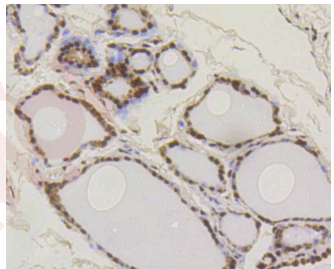
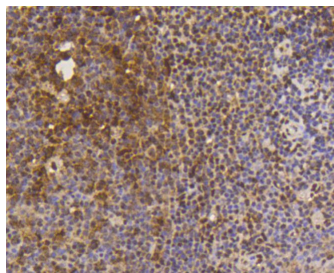
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 12 kDa.
Clone:	3N929
Purification:	ProA affinity purified

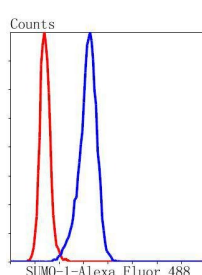
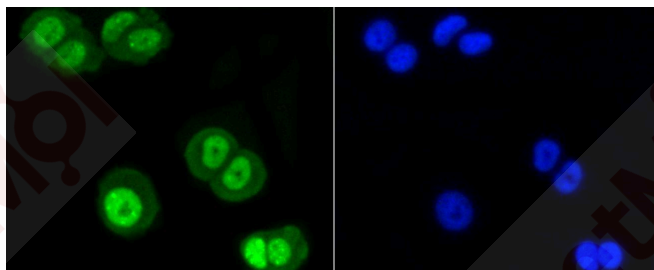
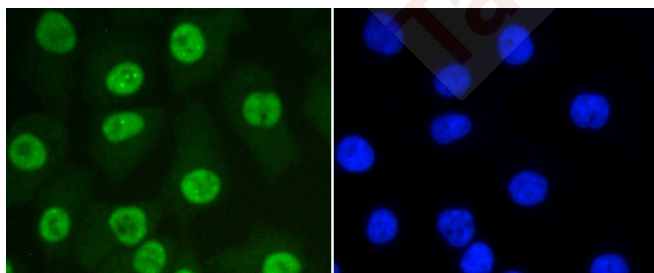
Applications

1. Western blot analysis of SUMO-1 on Hela cell lysates using anti-SUMO-1 antibody at 1/1,000 dilution.
2. Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-SUMO-1 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human thyroid tissue using anti-SUMO-1 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-SUMO-1 antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded mouse thyroid tissue using anti-SUMO-1 antibody. Counter stained with hematoxylin.
6. Immunohistochemical analysis of paraffin-embedded mouse placenta tissue using anti-SUMO-1 antibody. Counter stained with hematoxylin.
7. ICC staining SUMO-1 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
8. ICC staining SUMO-1 in A549 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
9. ICC staining SUMO-1 in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
10. Flow cytometric analysis of Hela cells with SUMO-1 antibody at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

Verified Activity:







Application: ChIP,FCM,ICC/IF,IHC,IP,WB

Recommended WB: 1:1000-2000; IHC: 1:50-200; ICC/IF: 1:50-200; FCM: 1:50-100

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P63165

Synonyms: SMT3;Ubiquitin like protein SMT3C;Ubiquitin homology domain protein PIC1;GAP modifying protein 1;Sentrin;Small ubiquitin-like modifier 1;Sentrin 1;Ubiquitin Like 1;SEN2;PIC1;GMP1; Small ubiquitin related modifier 1;DAP1;UBL1;SMT3H3;SMT3 suppressor of mif two 3 homolog 1;PIC 1;Smt3C;SMT3 homolog 3;SUMO-1;UBL 1;OFC10;Ubiquitin like protein UBL1;GMP 1

Research Background

The small ubiquitin-related modifier (SUMO) proteins, which include SUMO-1, SUMO-2 and SUMO-3, 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. Also, both 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 to a variety of cellular processing, including nuclear transport, transcriptional regulation, apoptosis and protein stability. The unconjugated SUMO-1, SUMO-2 and SUMO-3 proteins localize to the nuclear membrane, nuclear bodies and cytoplasm, respectively. SUMO-1 utilizes Ubc9 for conjugation to several target proteins, which include IκBα, MDM2, p53, PML and Ran GAP1. SUMO-2 and SUMO-3 contribute to a greater percentage of protein modification than does SUMO-1, and unlike SUMO-1, they can form polymeric chains. In addition, SUMO-3 regulates b-Amyloid generation and may be critical in the onset or

progression of Alzheimer's disease.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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