

Product Datasheet

SUMO2 Antibody (orb2639189)

Description

The small ubiquitin-related modifier (SUMO) proteins, which include SUMO-1, 2 and 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, 2 and 3 proteins localize to the nuclear membrane, nuclear bodies and cytoplasm, respectively. SUMO-1 utilizes Ubc9 for conjugation to several target proteins, which include MDM2, p53, PML and RanGap1. SUMO-2 and 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 beta-Amyloid generation and may be critical in the onset or progression of Alzheimer's disease.

Species/Host

Mouse

Reactivity

Human, Rat

Conjugation

Unconjugated

Tested Applications

IHC-P

Immunogen

Recombinant human protein was used as the immunogen for the SUMO-2 antibody.

Preservatives

0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin (US sourced) and 0.05% sodium azide

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Note

For research use only

Application notes

Optimal dilution of the CD98 antibody should be determined by the researcher.

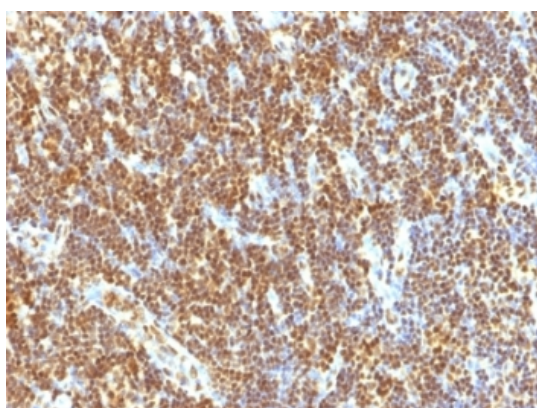
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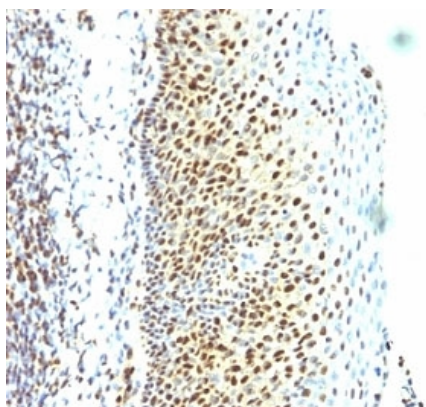
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Formula	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide
Isotype	Mouse IgG1, kappa
Clonality	Monoclonal
Clone Number	SUMO2/1199
Antibody Type	Primary Antibody
Purity	Protein G affinity chromatography
Uniprot ID	P61956
Hazard Information	This SUMO-2 antibody is available for research use only.
Dilution Range	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Expiration Date	12 months from date of receipt.



IHC: Formalin-fixed, paraffin-embedded human tonsil stained with SUMO-2 antibody (SUMO2/1199)



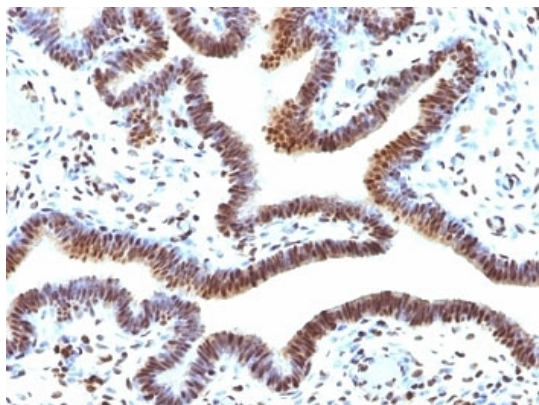
IHC: Formalin-fixed, paraffin-embedded human tonsil stained with SUMO-2 antibody.

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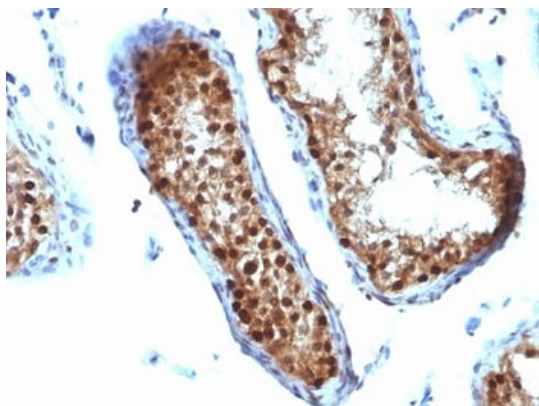
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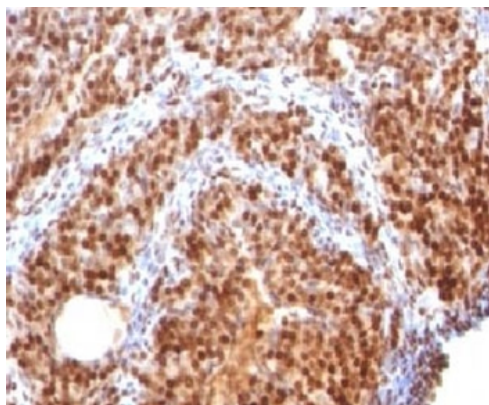
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IHC: Formalin-fixed, paraffin-embedded human ovarian carcinoma stained with SUMO-2 antibody.



IHC: Formalin-fixed, paraffin-embedded human testicular carcinoma stained with SUMO-2 antibody.



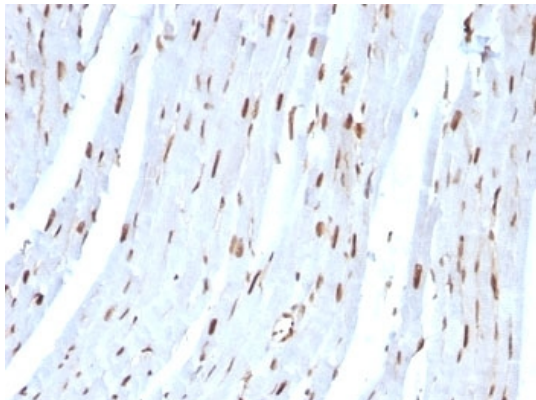
IHC: Formalin-fixed, paraffin-embedded rat ovary stained with SUMO-2 antibody.

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IHC: Formalin-fixed, paraffin-embedded rat heart stained with SUMO-2 antibody.

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