

Mouse SUMO-2 Monoclonal Antibody | anti-SUMO2 antibody

SUMO-2 Mouse Monoclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA13825	Mouse	Human, Rat. Predicted to show a broad species reactivity	Flow Cytometry, Functional Assay, Immunofluorescence, Immunohistochemistry

PRODUCT SYNONYMS

SUMO-2; Monoclonal Antibody; SUMO-2 Mouse Monoclonal Antibody; HSMT3; Sentrin 2; Small ubiquitin like modifier 2; Small ubiquitin like modifier protein 3; SMT3A; SMT3B; SMT3 homolog 1 (SMT3H1); SMT3 homolog 2 (SMT3H2); SMT3 homolog; SMT3 suppressor of mif two 3 homolog 1; SMT3 suppressor of mif two 3 homolog 2; SMT3 suppressor of mif two 3 homolog 3; Suppressor of mif two 3 homolog 2; Suppressor of mif two 3 homolog 3; Ubiquitin like protein SMT3A; Ubiquitin like protein SMT3B; anti-SUMO2 antibody

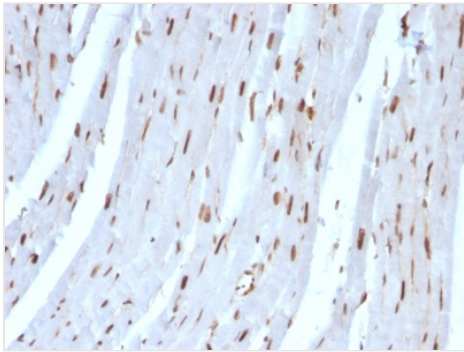
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Rat. Predicted to show a broad species reactivity
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	SUMO2/1199
Specificity	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.
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	141
Applicable Applications for anti-SUMO2 antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), IHC (Immunohistochemistry)
Application Notes	Flow Cytometry (0.5-1ug/million cells in 0.1ml) Immunofluorescence (0.5-1ug/ml) Immunohistochemistry (Formalin-fixed) (0.5-1ug/ml for 30 minutes at RT) (Staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)
Cellular Localization	Nuclear
Immunogen	Recombinant human SUMO2 protein
Hu-Chromosome Location	17q25.1
Positive Control	HeLa cells or breast carcinoma

Preparation and Storage

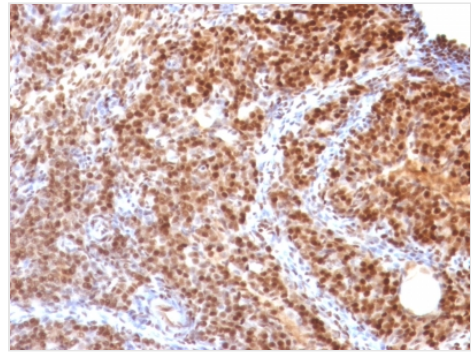
Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



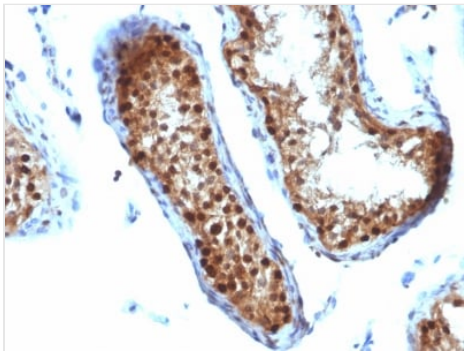
IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded Rat Heart stained with SUMO-2 Monoclonal Antibody (SUMO2/1199)



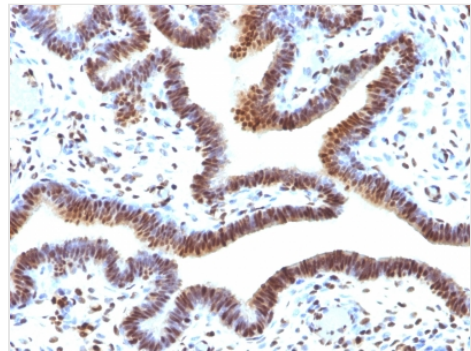
IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded Rat Ovary stained with SUMO-2 Monoclonal Antibody (SUMO2/1199)



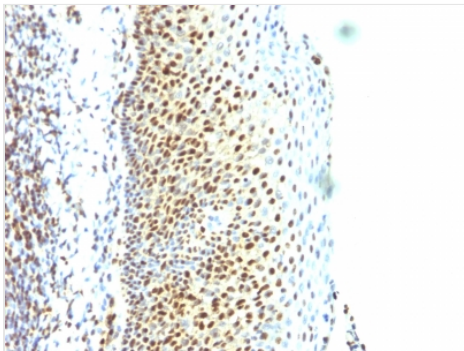
IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Testicular Carcinoma stained with SUMO-2 Monoclonal Antibody (SUMO2/1199)



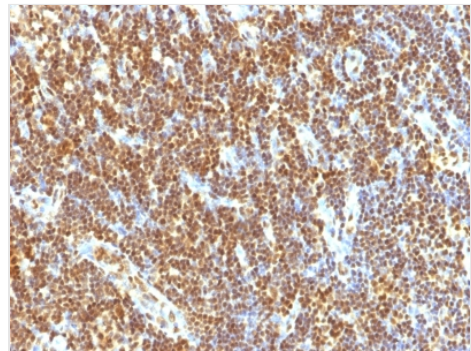
IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Ovarian Carcinoma stained with SUMO-2 Monoclonal Antibody (SUMO2/1199)



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Tonsil stained with SUMO-2 Monoclonal Antibody (SUMO2/1199)



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Tonsil stained with SUMO-2 Monoclonal Antibody (SUMO2/1199)

NCBI AND UNIPROT INFORMATION

NCBI GI #	556695502
NCBI GeneID	6612
NCBI Accession #	NP_001273345.1
NCBI GenBank Nucleotide #	NM_001286416.1
UniProt Accession #	P55854; Q53HI9; Q6FGD4; Q9BWR4; B2R5X4; B4DUW4

Molecular Weight	11-13kDa
NCBI Official Full Name	small ubiquitin-related modifier 3 isoform 2
NCBI Official Synonym Full Names	small ubiquitin-like modifier 3
NCBI Official Symbol	SUMO3
NCBI Official Synonym Symbols	SMT3A; Smt3B; SMT3H1; SUMO-3
NCBI Protein Information	small ubiquitin-related modifier 3
UniProt Protein Name	Small ubiquitin-related modifier 3
UniProt Gene Name	SUMO3
UniProt Synonym Gene Names	Smt3A
UniProt Entry Name	SUMO3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/sumo-2-antibody-clone-sumo2-1199-flow-cytometry-immunofluorescence-immunohistochemistry-elisa/13825>