

Mouse anti-Human SUMO2 Monoclonal Antibody | anti-SUMO2 antibody

SUMO2 antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA106295	Mouse	Human	Western Blot, Immunofluorescence, ELISA

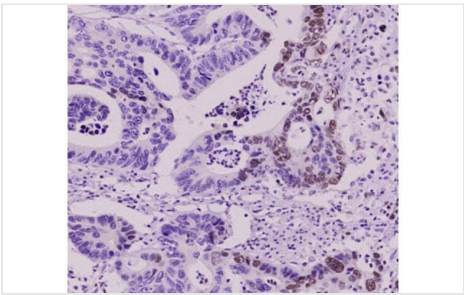
PRODUCT SYNONYMS

SUMO2; Monoclonal Antibody; SUMO2 antibody; Monoclonal SUMO2; Anti-SUMO2; Sentrin-2; Sentrin2; SMT3A; sumo3; MGC117191; Sumo3; SUMO-2; SUMO-3; HSMT3; SMT3B; SUMO 2; sumo 3; Sumo2; SMT3 homolog 2; SMT 3B; SMT3 suppressor of mif two 3 homolog 2; Small ubiquitin-related modifier 2; Ubiquitin like protein SMT3B.Small ubiquitin-related modifier 3; SMT3H1; Small ubiquitin-related modifier 2 SMT3 suppressor of mif two 3 homolog 2 (S; SMT3H2; Small ubiquitin like modifier 2; Sentrin 2; Small ubiquitin related modifier 2; HSMT 3; cerevisiae); anti-SUMO2 antibody

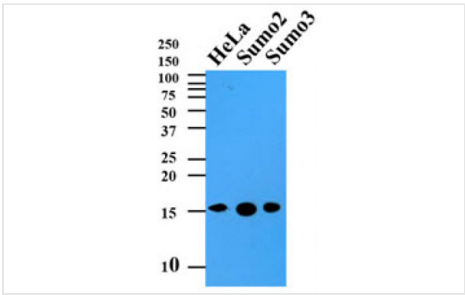
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b kappa
Clone Number	AT10F1
Specificity	Human
Purity/Purification	SUMO2 antibody was purified by protein-G affinity chromatography
Form/Format	Supplied as a liquid in PBS, pH 7.4, with 0.1% NaN ₃ .
Concentration	1 mg/ml (varies by lot)
Sequence Length	71
Applicable Applications for anti-SUMO2 antibody	WB (Western Blot), IF (Immunofluorescence), ELISA
Source Note	Anti-human SUMO2 antibody, clone AT10F1, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human SUMO2 protein.
Biological Significance	SUMO (small ubiquitin-related modifier) is the best-characterized member of a growing family of ubiquitin-related proteins. 8?11 kDa that covalently modify various intracellular proteins. It resembles ubiquitin in its structure, its ability to be ligated to other proteins. SUMO regulates cellular function of a variety of target proteins. SUMO proteins are expressed as their precursor forms. Cleavage of the residues after the ?GG? region of these precursors by SUMO-specific proteases in maturation is a prerequisite for subsequent sumoylation. Notably, SUMO2 and SUMO3 precursors have 96% sequence identity, and recent studies have shown protein substrates conjugated with SUMO2 or SUMO3 have similar, if not identical, biological consequences.
Cross-Reactivity	To be determined by end-user.
Immunogen	SUMO2 antibody was raised in mouse using recombinant human SUMO2 (1-93aa) purified from E Coli as the immunogen.
Preparation and Storage	Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.

IMAGES



IHC (Immunohistochemistry)
Paraffin embedded sections of colorectal canitrocelluloseer tissue were nitrocelluloseubated with anti-human SUMO2/3 antibody (1:50) for 2 hours at room temperature. Antigen retrieval was performed in 0.1M sodium citrate buffer and detected using Diaminobenzidine (DAB).



WB (Western Blot)
Cell lysates of HeLa (35 ug) and recombinant proteins (10 ng) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human SUMO2/3 (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

ADDITIONAL INFORMATION

Related Product Information for anti-SUMO2 antibody	Mouse monoclonal SUMO2 antibody
Product Categories/Family for anti-SUMO2 antibody	Cancer

NCBI AND UNIPROT INFORMATION

NCBI GI #	54792071
NCBI GeneID	6613
NCBI Accession #	NP_001005849.1
NCBI GenBank Nucleotide #	NM_001005849.1
UniProt Accession #	P61956; P55855; Q32Q42; Q6IPZ6; Q96HK1; B2R4I2
Molecular Weight	8,111 Da
NCBI Official Full Name	small ubiquitin-related modifier 2 isoform b
NCBI Official Synonym Full Names	small ubiquitin-like modifier 2
NCBI Official Symbol	SUMO2
NCBI Official Synonym Symbols	HSMT3; SMT3B; SUMO3; Smt3A; SMT3H2
NCBI Protein Information	small ubiquitin-related modifier 2
UniProt Protein Name	Small ubiquitin-related modifier 2
UniProt Gene Name	SUMO2
UniProt Synonym Gene Names	Smt3B
UniProt Entry Name	SUMO2_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.