

Mouse SUMO2 Monoclonal Antibody | anti-SUMO2 antibody

SUMO2 Antibody (C-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA283546	Mouse	Human, rat (Predicted Reactivity: Bovine, Chicken, Hamster, Monkey, Mouse, Pig)	Western Blot, ELISA, Immunofluorescence

PRODUCT SYNONYMS

SUMO2; Monoclonal Antibody; SUMO2 Antibody (C-term); Small ubiquitin-related modifier 2; SUMO-2; HSMT3; SMT3 homolog 2 {ECO:0000312|HGNC:HGNC:11125}; SUMO-3; Sentrin-2; Ubiquitin-like protein SMT3B; Smt3B; SUMO2 HGNC:11125); anti-SUMO2 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, rat (Predicted Reactivity: Bovine, Chicken, Hamster, Monkey, Mouse, Pig)
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	973CT8.1.1
Specificity	Purified His-tagged SUMO2 protein was used to produced this monoclonal antibody.
Form/Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Length	71
Applicable Applications for anti-SUMO2 antibody	WB (Western Blot), ELISA, IF (Immunofluorescence)
Antigen Type	Recombinant Protein
Crown Antibody	Yes
Antigen Source	Human
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)

SUMO2 Antibody (C-term) western blot analysis in CEM,293, rat C6 cell line lysates (35ug/lane). This demonstrates the SUMO2 antibody detected the SUMO2 protein (arrow).



IF (Immunofluorescence)

Fluorescent image of HeLa cells stained with SUMO2 Antibody (C-term). AAA283546 was diluted at 1:25 dilution. An Alexa Fluor 488-conjugated goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody (green). Cytoplasmic actin was counterstained with Alexa Fluor 555 conjugated with Phalloidin (red).

ADDITIONAL INFORMATION

Related Product Information for anti-SUMO2 antibody	Ubiquitin-like protein that can be covalently attached to proteins as a monomer or as a lysine-linked polymer. Covalent attachment via an isopeptide bond to its substrates requires prior activation by the E1 complex SAE1-SAE2 and linkage to the E2 enzyme UBE2I, and can be promoted by an E3 ligase such as PIAS1-4, RANBP2 or CBX4. This post-translational modification on lysine residues of proteins plays a crucial role in a number of cellular processes such as nuclear transport, DNA replication and repair, mitosis and signal transduction. Polymeric SUMO2 chains are also susceptible to polyubiquitination which functions as a signal for proteasomal degradation of modified proteins.
Product Categories/Family for anti-SUMO2 antibody	Crown Antibodies; Cell Biology
References	Reverter D., et al. Structure 12:1519-1531(2004). Xu Z., et al. Biochem. J. 386:325-330(2005). Mannen H., et al. Biochem. Biophys. Res. Commun. 222:178-180(1996). Lapenta V., et al. Genomics 40:362-367(1997). Ota T., et al. Nat. Genet. 36:40-45(2004).

NCBI AND UNIPROT INFORMATION

NCBI GI #	54792071
NCBI GeneID	6613
NCBI Accession #	NP_001005849.1; NP_008868.3
NCBI GenBank Nucleotide #	NM_001005849.1
UniProt Accession #	P61956; P55855; Q32Q42; Q6IPZ6; Q96HK1; B2R4I2
Molecular Weight	10871
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.