

Rabbit SUMO3 Antibody | anti-SUMO3 antibody

SUMO3 Antibody

CATALOG # AAA267069	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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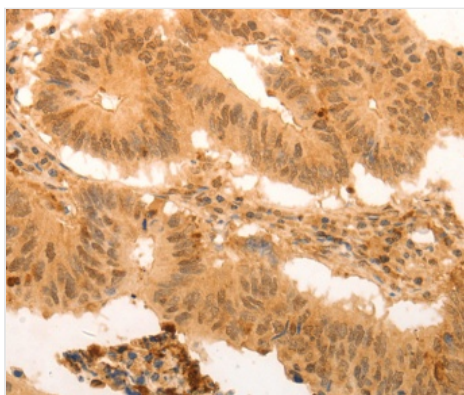
PRODUCT SYNONYMS

SUMO3; SUMO3 Antibody; SMT3A; Smt3B; SMT3H1; SUMO-3; anti-SUMO3 antibody

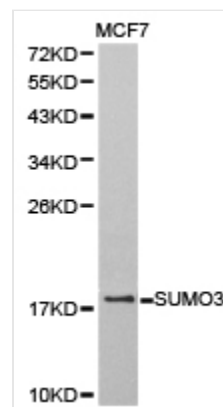
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Isotype	IgG
Purity/Purification	Affinity purification
Sequence Length	141
Applicable Applications for anti-SUMO3 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide of human SUMO3
Storage Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Preparation and Storage	Store at -20 degree C or -80 degree C. Avoid freeze/thaw cycles.

IMAGES


IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human colon cancer tissue using SUMO3 antibody at dilution 1/100.


WB (Western Blot)

Western blot analysis of extracts of MCF7 cellline, using SUMO3 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-SUMO3 antibody	Small ubiquitin-related modifier 1, 2 and 3 (SUMO-1,-2 and-3) are members of the ubiquitin-like protein family (1). The covalent attachment of the SUMO-1,-2 or-3 (SUMOylation) to target proteins is analogous to ubiquitination. This post-translational modification is a reversible, multi-step process that is initiated by cleaving a precursor protein to a mature protein. Mature SUMO-1,-2 or-3 is then linked to the activating enzyme E1, conjugated to E2 and in conjunction with E3, SUMO-1,-2 or-3 is ligated to the target protein (2). Ubiquitin and the individual SUMO family members are all targeted to different proteins with diverse biological functions. Ubiquitin predominantly regulates degradation of its target (1). In contrast, SUMO-1 is conjugated to RanGAP, PML, p53 and IkappaB-alpha to regulate nuclear trafficking, formation of subnuclear structures, regulation of transcriptional activity and protein stability (3-7). SUMO-2/-3 forms poly-(SUMO) chains, is conjugated to topoisomerase II and APP, regulates chromosomal segregation and cellular responses to environmental stress, and plays a role in the progression of Alzheimer disease (8-11).
Product Categories/Family for anti-SUMO3 antibody	Autophagy antibody ; Cancer ; Cardiovascular ; Cell Biology ; Epigenetics & Nuclear Signaling ; Developmental Biologys ; Immunology ; Drug Discovery Products ; Metabolism ; Neuroscience ; Signal Transduction ; Stem Cells
References	1. Schwartz, D.C. and Hochstrasser, M. (2003) Trends Biochem. Sci. 28, 321-328. 2. Kim, K.I. et al. (2002) J. Cell Physiol. 191, 257-268. 3. Matunis, M.J. et al. (1996) J. Cell Biol. 135, 1457-1470. 4. Duprez, E. et al. (1999) J. Cell Sci. 112, 381-393. 5. Gostissa, M. et al. (1999) EMBO J. 18, 6462-6474. 6. Rodriguez, M.S. et al. (1999) EMBO J. 18, 6455-6461. 7. Desterro, J.M. et al. (1998) Mol. Cell 2, 233-239. 8. Tatham, M.H. et al. (2001) J. Biol. Chem. 276, 35368-35374. 9. Azuma, Y. et al. (2003) J. Cell Biol. 163, 477-487. 10. Li, Y. et al. (2003) Proc. Natl. Acad. Sci. USA 100, 259-264. 11. Saitoh, H. and Hinchey, J. (2000) J. Biol. Chem. 275, 6252-6258.

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	12kDa
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

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/rabbit-human-mouse-rat-antibody/sumo3/267069>