

Rabbit SUMO2 Polyclonal Antibody | anti-SUMO2 antibody

SUMO2 Polyclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA36974	Rabbit	Human, mouse, rat	Immunocytochemistry, Immunohistochemistry, Western Blot

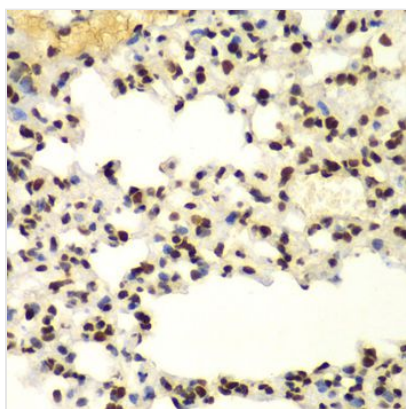
PRODUCT SYNONYMS

SUMO2; Polyclonal Antibody; SUMO2 Polyclonal Antibody; SUMO2 ; HSMT3; MGC117191; SMT3B; SMT3H2; SUMO3; Smt3A; SMT3 homolog 2; SUMO3 ; Sentrin2 ; Ubiquitinlike protein SMT3A; anti-SUMO2 antibody

PRODUCT SPECIFICATIONS

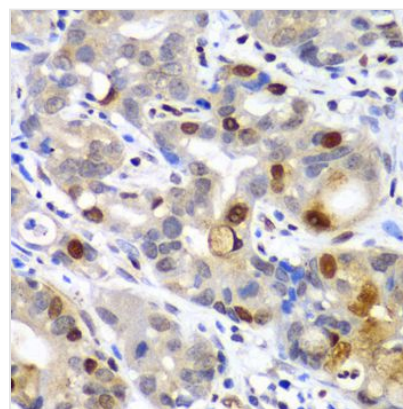
Host	Rabbit
Reactivity	Human, mouse, rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity purification
Sequence Length	71
Applicable Applications for anti-SUMO2 antibody	ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide of human SUMO2
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



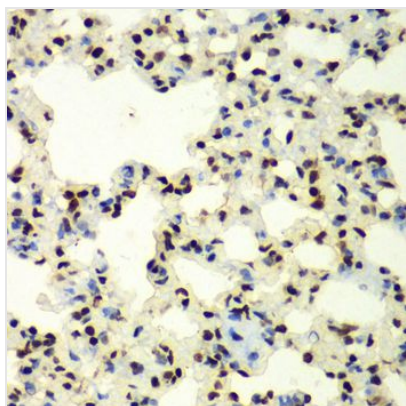
IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded mouse lung using SUMO2 antibody at dilution of 1:100 (40x lens).



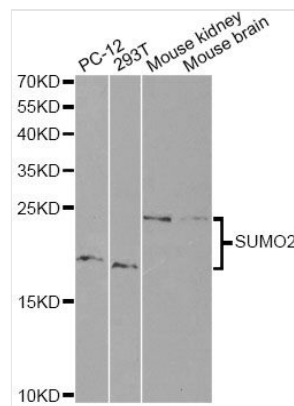
IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human gastric cancer using SUMO2 antibody at dilution of 1:100 (40x lens).



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded rat lung using SUMO2 antibody at dilution of 1:100 (40x lens).



WB (Western Blot)

Western blot analysis of extracts of various cell lines, using SUMO2 antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-SUMO2 antibody

Small ubiquitin-related modifier 1, 2 and 3 (SUMO1, 2 and 3) are members of the ubiquitin-like protein family (1). The covalent attachment of the SUMO1, 2 or 3 (SUMOylation) to target proteins is analogous to ubiquitination. This posttranslational modification is a reversible, multistep process that is initiated by cleaving a precursor protein to a mature protein. Mature SUMO1, 2 or 3 is then linked to the activating enzyme E1, conjugated to E2 and in conjunction with E3, SUMO1, 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, SUMO1 is conjugated to RanGAP, PML, p53 and IκappaBα to regulate nuclear trafficking, formation of subnuclear structures, regulation of transcriptional activity and protein stability (37). SUMO2/3 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 (811).

References

- Schwartz, D.C. and Hochstrasser, M. (2003) Trends Biochem. Sci. 28, 321328.
- Kim, K.I. et al. (2002) J. Cell Physiol. 191, 257268.
- Matunis, M.J. et al. (1996) J. Cell Biol. 135, 14571470.
- Duprez, E. et al. (1999) J. Cell Sci. 112, 381393.
- Gostissa, M. et al. (1999) EMBO J. 18, 64626474.
- Rodriguez, M.S. et al. (1999) EMBO J. 18, 64556461.
- Desterro, J.M. et al. (1998) Mol. Cell 2, 233239.
- Tatham, M.H. et al. (2001) J. Biol. Chem. 276, 3536835374.
- Azuma, Y. et al. (2003) J. Cell Biol. 163, 477487.
- Li, Y. et al. (2003) Proc. Natl. Acad. Sci. USA 100, 259264.
- Saitoh, H. and Hincley, J. (2000) J. Biol. Chem. 275, 62526258.

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	18kDa
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; sentrin 2; SMT3 homolog 2; ubiquitin-like protein SMT3A; ubiquitin-like protein SMT3B; SMT3 suppressor of mif two 3 homolog 2

UniProt Protein Name	Small ubiquitin-related modifier 2
UniProt Gene Name	SUMO2
UniProt Synonym Gene Names	SMT3A; SMT3H2; SUMO-2; Smt3A
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.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/sumo2-antibody-immunocytochemistry-immunohistochemistry-western-blot-elisa/36974>