

Rabbit anti-Human SUMO4 Polyclonal Antibody | anti-SUMO4 antibody

SUMO4 Antibody (V55 Mutant)

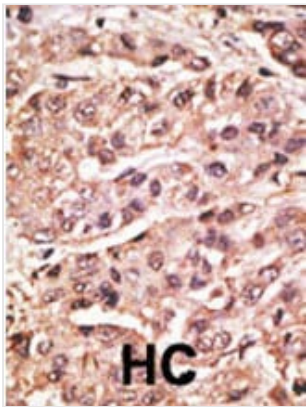
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA290198	Rabbit	Human	Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

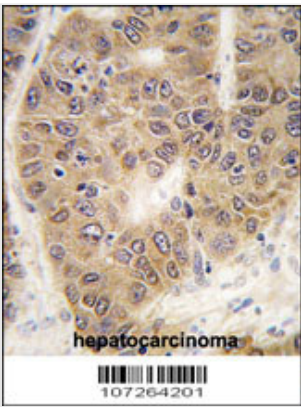
SUMO4; Polyclonal Antibody; SUMO4 Antibody (V55 Mutant); Small ubiquitin-related modifier 4; SUMO-4; Small ubiquitin-like protein 4; SMT3H4; anti-SUMO4 antibody

PRODUCT SPECIFICATIONS

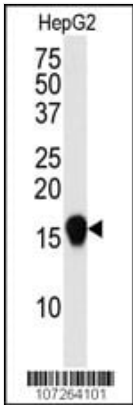
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This SUMO4 antibody is generated from rabbits immunized with a KLH conjugated peptide CEPRGLS(V)KQIRFRFG selected from human SUMO4. This antibody is affinity purified using peptides CEPRGLS(V)KQIRFRFG (positive selection) and CEPRGLS(M)KQIRFRFG (negative selection).
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Length	95
Applicable Applications for anti-SUMO4 antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
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.



IHC (Immunohistochemisry)
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



IHC (Immunohiostchemistry)
Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with SUMO4 antibody (V55 Mutant) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



WB (Western Blot)
Western blot analysis of SUMO4 Antibody (V55 Mutant) in HepG2 cell line lysate (35ug/lane). SUMO4 mutant (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-SUMO4 antibody	SUMO4 is a member of the SUMO gene family. This family of small ubiquitin-related modifiers covalently modify target lysines in proteins and control the target proteins' subcellular localization, stability, or activity. Upon oxidative stress, SUMO4 conjugates to various anti-oxidant enzymes, chaperones, and stress defense proteins. This protein may also conjugate to NFKBIA, TFAP2A and FOS, negatively regulating their transcriptional activity, and to NR3C1, positively regulating its transcriptional activity. Covalent attachment to SUMO4 substrates requires prior activation by the E1 complex SAE1-SAE2 and linkage to the E2 enzyme UBE2I. In contrast to SUMO1, SUMO2 and SUMO3, SUMO4 seems to be insensitive to sentrin-specific proteases due to the presence of Pro-90. This may impair processing to mature form and conjugation to substrates. SUMO4 is located in the cytoplasm and specifically modifies IKBA, leading to negative regulation of NF-kappa-B-dependent transcription of the IL12B gene. The M55V substitution has been associated with type I diabetes.
Product Categories/Family for anti-SUMO4 antibody	Cell Biology
References	Park,Y., et al. Nat. Genet. 37 (2), 112 (2005) Guo,D., et al. Nat. Genet. 36 (8), 837-841 (2004) Bohren,K.M.,et al. J. Biol. Chem. 279 (26), 27233-27238 (2004) Yang, S.H., et al., Mol. Cell 13(4):611-617 (2004). Bailey, D., et al., J. Biol. Chem. 279(1):692-703 (2004). Ling, Y., et al., Nucleic Acids Res. 32(2):598-610 (2004). Pountney, D.L., et al., Exp. Neurol. 184(1):436-446 (2003). Ohshima, T., et al., J. Biol. Chem. 278(51):50833-50842 (2003).

NCBI AND UNIPROT INFORMATION

NCBI GI #	50400081
NCBI GeneID	387082
NCBI Accession #	NP_001002255.1
NCBI GenBank Nucleotide #	NM_001002255.1
UniProt Accession #	Q6EEV6; A1L3W5
Molecular Weight	10685
NCBI Official Full Name	small ubiquitin-related modifier 4
NCBI Official Synonym Full Names	small ubiquitin-like modifier 4
NCBI Official Symbol	SUMO4
NCBI Official Synonym Symbols	IDDM5; SMT3H4; SUMO-4; dJ281H8.4
NCBI Protein Information	small ubiquitin-related modifier 4
UniProt Protein Name	Small ubiquitin-related modifier 4
UniProt Gene Name	SUMO4
UniProt Synonym Gene Names	SMT3H4; SUMO-4
UniProt Entry Name	SUMO4_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/polyclonal/sumo4-antibody-immunohistochemistry-western-blot-elisa/290198>