

Rabbit SUMO4 Polyclonal Antibody | anti-SUMO4 antibody

SUMO4 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326911	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

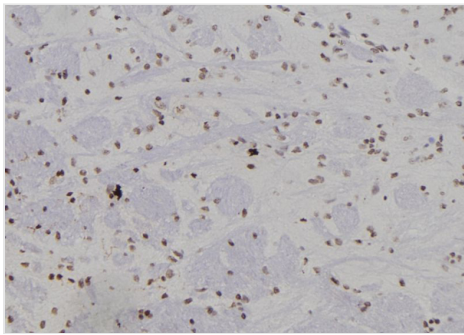
PRODUCT SYNONYMS

SUMO4; Polyclonal Antibody; SUMO4 Antibody; dJ281H8.4; IDDM5; Small ubiquitin like modifier 4 protein; Small ubiquitin-like protein 4; Small ubiquitin-related modifier 4; SMT3 suppressor of mif two 3 homolog 2; SMT3 suppressor of mif two 3 homolog 4 (S. cerevisiae); SMT3H4; SUMO 4; SUMO-4; SUMO4_HUMAN; anti-SUMO4 antibody

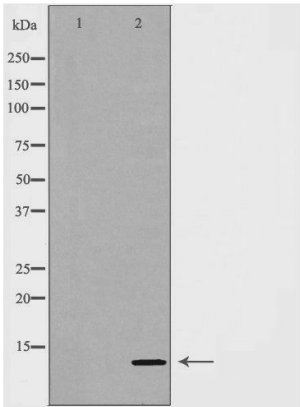
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	SUMO4 antibody detects endogenous levels of total SUMO4
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	95
Applicable Applications for anti-SUMO4 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide of human SUMO4
Tissue Specificity	Expressed mainly in adult and embryonic kidney. Expressed at various levels in immune tissues, with the highest expression in the lymph node and spleen.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA326911 at 1/100 staining Rat brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of Hepg2 whole cell lysates, using SUMO4 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-SUMO4 antibody

Description: This gene is a member of the SUMO gene family. This family of genes encode small ubiquitin-related modifiers that are attached to proteins and control the target proteins' subcellular localization, stability, or activity. The protein described in this record is located in the cytoplasm and specifically modifies IKBA, leading to negative regulation of NF-kappa-B-dependent transcription of the IL12B gene. A specific polymorphism in this SUMO gene, which leads to the M55V substitution, has been associated with type I diabetes. The RefSeq contains this polymorphism.

Function: Ubiquitin-like protein which can be covalently attached to target lysines as a monomer. Does not seem to be involved in protein degradation and may modulate protein subcellular localization, stability or activity. Upon oxidative stress, conjugates to various anti-oxidant enzymes, chaperones, and stress defense proteins. May also conjugate to NFKBIA, TFAP2A and FOS, negatively regulating their transcriptional activity, and to NR3C1, positively regulating its transcriptional activity. Covalent attachment to its substrates requires prior activation by the E1 complex SAE1-SAE2 and linkage to the E2 enzyme UBE2I.

Subunit Structure: Interacts with SAE2. Covalently attached to a number of proteins (Probable).

Post-translational Modifications: In contrast to SUMO1, SUMO2 and SUMO3, 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.

Similarity: Belongs to the ubiquitin family. SUMO subfamily.

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	Observed: 12 kDa Predicted: 11 kDa
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

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/326911>