

Rabbit SREBP-1 Polyclonal Antibody | anti-SREBP-1 antibody

Phospho-SREBP-1 (Ser338) Antibody

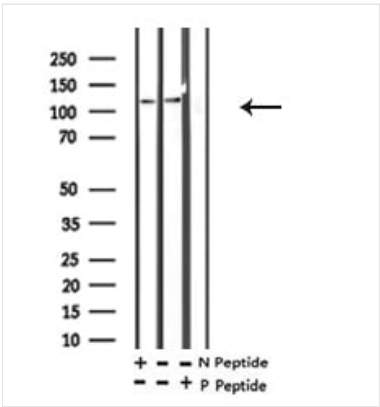
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA328448	Rabbit	Human, Mouse, Rat Predicted: Pig, Bovine, Horse, Sheep, Dog, Chicken, Xenopus	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

SREBP-1; Polyclonal Antibody; Phospho-SREBP-1 (Ser338) Antibody; ADD 1; bHLHd1; Class D basic helix-loop-helix protein 1; D630008H06; Processed sterol regulatory element-binding protein 1; SRBP1_HUMAN; SREBF 1; SREBF1; SREBP 1; SREBP 1c; SREBP1; Sterol regulatory element binding protein 1; Sterol Regulatory Element Binding Transcription Factor 1/Protein 1; Sterol regulatory element binding transcription factor 1; Sterol regulatory element-binding transcription factor 1; anti-SREBP-1 antibody

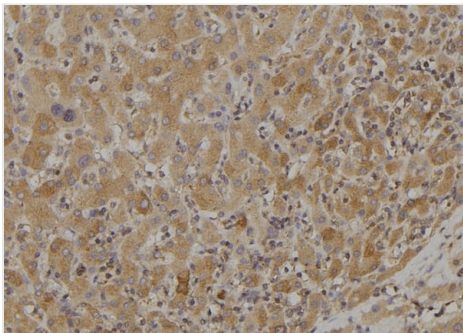
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted: Pig, Bovine, Horse, Sheep, Dog, Chicken, Xenopus
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-SREBP-1 (Ser338) Antibody detects endogenous levels of SREBP-1 only when phosphorylated at Ser338.
Purity/Purification	Purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
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	1177
Applicable Applications for anti-SREBP-1 antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human SREBP-1 around the phosphorylation site of Ser338.
Tissue Specificity	Expressed in a wide variety of tissues, most abundant in liver and adrenal gland. In fetal tissues lung and liver shows highest expression. Isoform SREBP-1C predominates in liver, adrenal gland and ovary, whereas isoform SREBP-1A predominates in hepatoma cell lines. Isoform SREBP-1A and isoform SREBP-1C are found in kidney, brain, white fat, and muscle.
Subcellular Location	Endoplasmic Reticulum; Golgi Apparatus; Nucleus; Nucleus; Nucleus
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



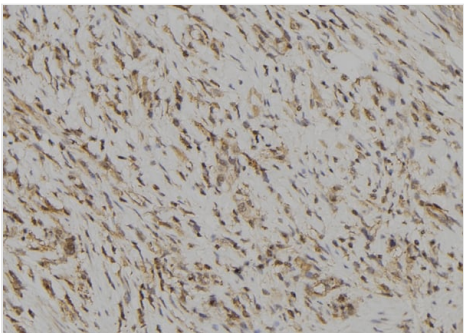
WB (Western Blot)

Western blot analysis of Phospho-SREBP-1 (Ser338) in lysates of Jurkat TNF 20ng/ml 30', using Phospho-SREBP-1 (Ser338) Antibody.



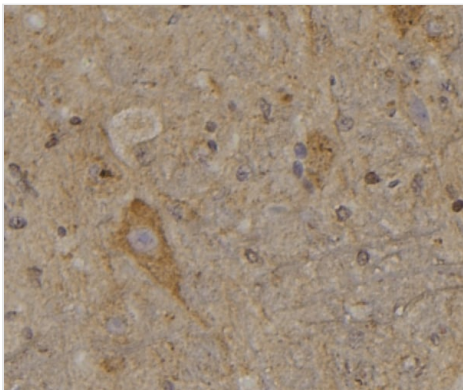
IHC (Immunohistochemistry)

At 1/100 staining human liver tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue 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



IHC (Immunohistochemistry)

At 1/100 staining human gastric cancer tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue 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



IHC (Immunohistochemistry)

At 1/100 staining rat brain tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue 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

ADDITIONAL INFORMATION

Related Product Information for anti-SREBP-1 antibody

Description: Transcriptional activator required for lipid homeostasis. Regulates transcription of the LDL receptor gene as well as the fatty acid and to a lesser degree the cholesterol synthesis pathway (By similarity). Binds to the sterol regulatory element 1 (SRE-1) (5'-ATCACCCAC-3'). Has dual sequence specificity binding to both an E-box motif (5'-ATCACGTGA-3') and to SRE-1 (5'-ATCACCCAC-3').

Post Translational Modifications: At low cholesterol the SCAP/SREBP complex is recruited into COPII vesicles for export from the ER. In the Golgi complex SREBPs are cleaved sequentially by site-1 and site-2 protease. The first cleavage by site-1 protease occurs within the luminal loop, the second cleavage by site-2 protease occurs within the first transmembrane domain and releases the transcription factor from the Golgi membrane. Apoptosis triggers cleavage by the cysteine proteases caspase-3 and caspase-7. Phosphorylated by AMPK, leading to suppress protein processing and nuclear translocation, and repress target gene expression. Phosphorylation at Ser-402 by SIK1 represses activity possibly by inhibiting DNA-binding (By similarity).

Subunit Structure: Forms a tight complex with SCAP in the ER membrane. Efficient DNA binding of the soluble transcription factor fragment requires dimerization with another bHLH protein. Interacts with LMNA. Interacts with CEBPA, the interaction produces a transcriptional synergy (By similarity).

Similarity: Belongs to the SREBP family.

NCBI AND UNIPROT INFORMATION

NCBI GI # 52630419

NCBI GeneID	6720
NCBI Accession #	NP_001005291.1
NCBI GenBank Nucleotide #	NP_001005291.1
UniProt Accession #	P36956
Molecular Weight	Observed: 122 kDa Predicted: 122 kDa
NCBI Official Full Name	sterol regulatory element-binding protein 1 isoform a
NCBI Official Synonym Full Names	sterol regulatory element binding transcription factor 1
NCBI Official Symbol	SREBF1
NCBI Official Synonym Symbols	SREBP1; bHLHd1
NCBI Protein Information	sterol regulatory element-binding protein 1
UniProt Protein Name	Sterol regulatory element-binding protein 1
UniProt Gene Name	SREBF1
UniProt Synonym Gene Names	BHLHD1; SREBP1; SREBP-1; bHLHd1
UniProt Entry Name	SRBP1_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/srebp-1-antibody-peptide-elisa-immunohistochemistry-western-blot-elisa/328448>