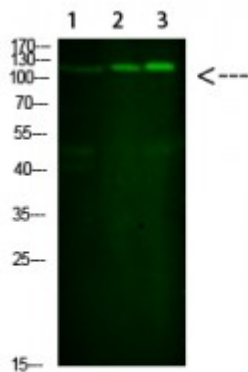


Anti-SREBP-1 antibody



Model	STJ98832
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, WB
Immunogen	Synthesized peptide derived from human SREBP-1.
Immunogen Region	250-330
Gene ID	6720;
Gene Symbol	SREBF1
Dilution range	WB 1:500-2000ELISA 1:5000-20002
Specificity	This antibody detects endogenous levels of SREBP-1
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
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Sterol regulatory element-binding protein 1SREBP-1Class D basic helix-loop-helix protein 1bHLHd1Sterol regulatory element-binding transcription factor 1
Molecular Weight	121.6 kDa

Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	Gene Id: 11289 OMIM: 184756 Reactome: R-HSA-1368082 Reactome: R-HSA-1655829 Reactome: R-HSA-1989781 Reactome: R-HSA-2426168 Reactome: R-HSA-381340 Reactome: R-HSA-9615017
Alternative Names	SREBF1Sterol regulatory element-binding protein 1 antibodySREBP-1 antibodyClass D basic helix-loop-helix protein 1 antibodybHLHd1 antibodySterol regulatory element-binding transcription factor 1SREBF1 antibodyBHLHD1 antibodySREBP1 antibodyBHLHD1 antibodySREBP1
Function	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'-ATCACCCCAC-3'), Has dual sequence specificity binding to both an E-box motif (5'-ATCACGTGA-3') and to SRE-1 (5'-ATCACCCCAC-3')
Sequence and Domain Family	The nuclear export signal acts as a transcriptional repression domain. The TADI and TADII motifs (residues 17 to 25 and 48 to 56) correspond both to 9aaTAD motifs which are transactivation domains present in a large number of yeast and animal transcription factors.
Cellular Localization	Endoplasmic reticulum membrane
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