

Anti-SRBP2 antibody



Description	Unconjugated Rabbit polyclonal to SRBP2
Model	STJ190141
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, WB
Immunogen	Synthesized peptide derived from human SRBP2 protein.
Immunogen Region	390-470aa
Gene ID	6721
Gene Symbol	SREBF2
Dilution range	WB 1:500-2000 ELISA 1:5000-20000
Specificity	SRBP2 Polyclonal Antibody detects endogenous levels of protein.
Tissue Specificity	Ubiquitously expressed in adult and fetal tissues.
Purification	SRBP2 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 2 SREBP-2 Class D basic helix-loop-helix protein 2 bHLHd2 Sterol regulatory element-binding transcription factor 2 Processed sterol regulatory element-binding protein 2
Molecular Weight	125 kDa
Clonality	Polyclonal

Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid form in PBS containing 50% glycerol, and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:11290 OMIM:600481
Alternative Names	Sterol regulatory element-binding protein 2 SREBP-2 Class D basic helix-loop-helix protein 2 bHLHd2 Sterol regulatory element-binding transcription factor 2 Processed sterol regulatory element-binding protein 2
Function	Transcriptional activator required for lipid homeostasis. Regulates transcription of the LDL receptor gene as well as the cholesterol and to a lesser degree the fatty acid synthesis pathway . Binds the sterol regulatory element 1 (SRE-1) (5'-ATCACCCCAC-3') found in the flanking region of the LDRL and HMG-CoA synthase genes.
Cellular Localization	Endoplasmic reticulum membrane. Multi-pass membrane protein. Golgi apparatus membrane. Multi-pass membrane protein. Cytoplasmic vesicle, COPII-coated vesicle membrane. Multi-pass membrane protein. Moves from the endoplasmic reticulum to the Golgi in the absence of sterols.. Processed sterol regulatory element-binding protein 2: Nucleus.
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.