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SREBF2 antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI16231

Product Information

Application	WB
Primary Accession	Q12772
Other Accession	NM_004599, AAH51385
Reactivity	Human, Rat, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Rat, Chicken, Dog, Guinea Pig, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	123688

Additional Information

Gene ID	6721
Alias Symbol	SREBP2, bHLHd2
Other 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, SREBF2, BHLHD2, SREBP2
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-SREBF2 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	SREBF2 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SREBF2 {ECO:0000303|PubMed:32322062, ECO:0000312|HGNC:HGNC:11290}
Function	[Sterol regulatory element-binding protein 2]: Precursor of the transcription factor form (Processed sterol regulatory element- binding protein 2), which is embedded in the endoplasmic reticulum membrane (PubMed:32322062). Low sterol concentrations promote processing of this form, releasing the transcription factor form that translocates into the nucleus and activates transcription of genes involved in cholesterol biosynthesis (PubMed:32322062).

Cellular Location	[Sterol regulatory element-binding protein 2]: Endoplasmic reticulum membrane; Multi- pass membrane protein. Golgi apparatus membrane; Multi-pass membrane protein. Cytoplasmic vesicle, COPII-coated vesicle membrane; Multi-pass membrane protein. Note=At high sterol concentrations, the SCAP- SREBP is retained in the endoplasmic reticulum (PubMed:32322062). Low sterol concentrations promote recruitment into COPII-coated vesicles and transport of the SCAP-SREBP to the Golgi, where it is processed (PubMed:32322062).
Tissue Location	Ubiquitously expressed in adult and fetal tissues.

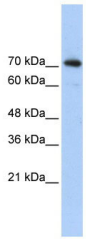
Background

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 (By similarity). Binds the sterol regulatory element 1 (SRE-1) (5'-ATCACCCCAC-3') found in the flanking region of the LDRL and HMG-CoA synthase genes.

References

Hua X.,et al.Proc. Natl. Acad. Sci. U.S.A. 90:11603-11607(1993).
Collins J.E.,et al.Genome Biol. 5:R84.1-R84.11(2004).
Dunham I.,et al.Nature 402:489-495(1999).
Yokoyama C.,et al.Cell 75:187-197(1993).
Hua X.,et al.J. Biol. Chem. 271:10379-10384(1996).

Images



WB Suggested Anti-SREBF2 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:7812500
Positive Control: Transfected 293T
SREBF2 is supported by BioGPS gene expression data to be expressed in HEK293T