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SREBF2 / SREBP2 Antibody (Internal)

Rabbit Polyclonal Antibody

Catalog # ALS16434

Specification

SREBF2 / SREBP2 Antibody (Internal) - Product Information

Application	**WB, IHC-P, IF, E**
Primary Accession	Q12772
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**124kDa KDa**
Dilution	**WB~~1:1000** **IHC-P~~N/A** **IF~~1:50~200** **E~~N/A**

SREBF2 / SREBP2 Antibody (Internal) - Additional Information

Gene ID 6721

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

Target/Specificity
SREBF2 antibody is human and mouse reactive. At least three isoforms of SREBF2 are known to exist. SREBF2 antibody is predicted not to cross-react with SREBF1.

Reconstitution & Storage
Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

Precautions
SREBF2 / SREBP2 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

SREBF2 / SREBP2 Antibody (Internal) - 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:<a

href="http://www.uniprot.org/citations/32322062" target="_blank">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).

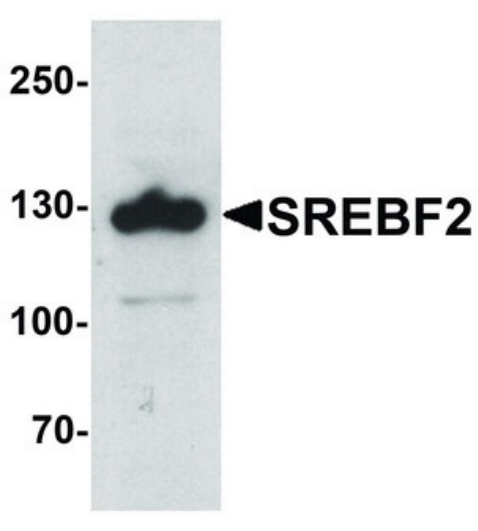
Tissue Location
Ubiquitously expressed in adult and fetal tissues.

SREBF2 / SREBP2 Antibody (Internal) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SREBF2 / SREBP2 Antibody (Internal) - Images



Western blot analysis of SREBF2 in PC-3 cell lysate with SREBF1 antibody at 1 ug/ml.

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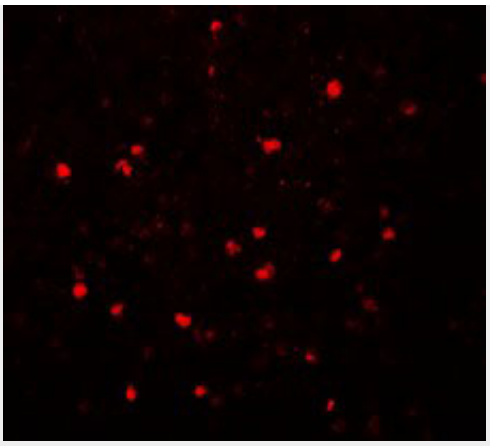

Immunofluorescence of SREBF2 in human spleen tissue with SREBF2 antibody at 20 ug/mL.

SREBF2 / SREBP2 Antibody (Internal) - 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.

SREBF2 / SREBP2 Antibody (Internal) - 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).