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# SREBF2 antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI16231

## Product Information

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| **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

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| **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

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| **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). |

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| **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. |

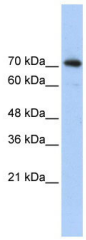
## Background

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