

SREBP-2 (Phospho Ser455) Rabbit pAb

CatalogNo: YP1727

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB

MW

- 126kD (Calculated)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-2000

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized peptide derived from human SREBP-2 (Phospho-Ser455)

Specificity This antibody detects endogenous levels of SREBP-2 (Phospho-Ser455) at Human, Mouse, Rat. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):PGsPL

| Target Information

Gene name SREBF2 BHLHD2 SREBP2

Protein Name SREBP-2 (Phospho-Ser455)

Organism	Gene ID	UniProt ID
Human	6721 ;	Q12772 ;
Mouse	20788 ;	Q3U1N2 ;
Rat	300095 ;	Q3T1I5 ;

Cellular Localization

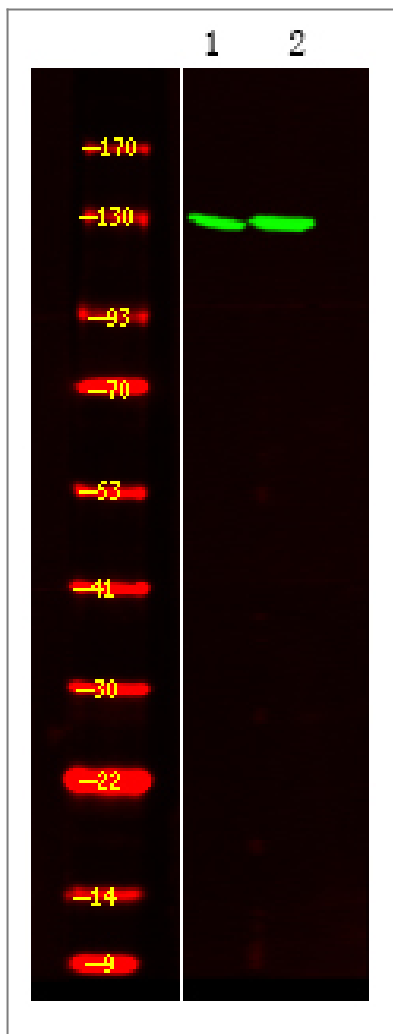
[Sterol regulatory element-binding protein 2]: Endoplasmic reticulum membrane ; Multi-pass membrane protein . Golgi apparatus membrane ; Multi-pass membrane protein . Cytoplasmic vesicle , COPII-coated vesicle membrane ; Multi-pass membrane protein . At high sterol concentrations , the SCAP-SREBP is 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) . . ; [Processed sterol regulatory element-binding protein 2]: Nucleus . Transported into the nucleus with the help of importin-beta. Dimerization of the bHLH domain is a prerequisite for importin beta-dependent nuclear import. .

Tissue specificity Ubiquitously expressed in adult and fetal tissues.

Function

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 (By similarity) . Binds the sterol regulatory element 1 (SRE-1) (5'-ATCACCCAC-3') found in the flanking region of the LDRL and HMG-CoA synthase genes. ,PTM: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. ,similarity:Belongs to the SREBP family. ,similarity:Contains 1 basic helix-loop-helix (bHLH) domain. ,subcellular location:Moves from the endoplasmic reticulum to the Golgi in the absence of sterols. ,subunit:Forms a tight complex with SCAP in the ER membrane. Efficient DNA binding of the soluble transcription factor fragment requires dimerization with another bHLH protein. Interacts with LMNA. ,tissue specificity:Ubiquitously expressed in adult and fetal tissues. ,

| Validation Data



Western Blot analysis of HUVEC cell, HEK-293T cell ,using primary antibody at 1:1000 dilution. Secondary antibody (catalog#:RS23920) was diluted at 1:10000

Contact information

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