

SREBP-1 (Phospho Ser439) Rabbit pAb

CatalogNo: YP0833 **Orthogonal Validated** 

Key Features

Host Species

- Rabbit

Reactivity

- Human,Rat

Applications

- WB,IHC,IF,ELISA

MW

- 122kD (Observed)

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 1:500-1:2000

IHC 1:100-1:300

ELISA 1:5000

IF 1:50-200

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human SREBP-1 around the phosphorylation site of Ser439. AA range:405-454

Specificity

Phospho-SREBP-1 (S439) Polyclonal Antibody detects endogenous levels of SREBP-1 protein only when phosphorylated at S439. 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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): QSSPL

| Target Information

Gene name SREBF1

Protein Name Sterol regulatory element-binding protein 1

Organism	Gene ID	UniProt ID
Human	6720 ;	P36956 ;
Mouse		Q9WTN3 ;
Rat	78968 ;	P56720 ;

Cellular Localization

[Sterol regulatory element-binding protein 1]: 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. Low sterol concentrations promote recruitment into COPII-coated vesicles and transport of the SCAP-SREBP to the Golgi , where it is processed. . ; [Processed sterol regulatory element-binding protein 1]: Nucleus . ; [Isoform SREBP-1aDelta]: Nucleus . ; [Isoform SREBP-1cDelta]: Nucleus .

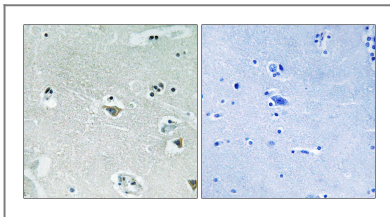
Tissue specificity

Expressed in a wide variety of tissues , most abundant in liver and adrenal gland (PubMed:8402897) . In fetal tissues lung and liver shows highest expression (PubMed:8402897) . ; [Isoform SREBP-1A]: Predominates in hepatoma cell lines (PubMed:8402897) . Also expressed in kidney , brain , white fat , and muscle (PubMed:8402897) . ; [Isoform SREBP-1C]: Predominantly expressed in liver and adipose tissues (PubMed:8402897) . Also expressed in kidney , brain , white fat , and muscle (PubMed:8402897) .

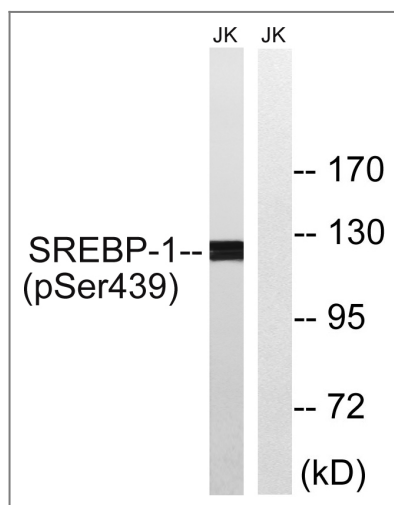
Function

Alternative products: Additional isoforms seem to exist ,Function: Transcriptional activator required for lipid homeostasis. Regulates transcription of the LDL receptor gene as well as the fatty acid and to a lesser degree the cholesterol synthesis pathway (By similarity) . Binds to the sterol regulatory element 1 (SRE-1) (5'-ATCACCCCAC-3') . Has dual sequence specificity binding to both an E-box motif (5'-ATCACGTGA-3') and to SRE-1 (5'-ATCACCCCAC-3') . ,online information: Sterol regulatory element-binding protein entry ,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. ,sequence Caution: Intron retention. ,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: Expressed in a wide variety of tissues , most abundant in liver and adrenal gland. In fetal tissues lung and liver shows highest expression. Isoform SREBP-1C predominates in liver , adrenal gland and ovary , whereas isoform SREBP-1A predominates in hepatoma cell lines. Isoform SREBP-1A and isoform SREBP-1C are found in kidney , brain , white fat , and muscle. ,

Validation Data



Immunohistochemistry analysis of paraffin-embedded human brain, using SREBP-1 (Phospho-Ser439) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from Jurkat cells treated with TNF 20ng/ml 30', using SREBP-1 (Phospho-Ser439) Antibody. The lane on the right is blocked with the phospho peptide.

Contact information

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SREBP-1 (Phospho Ser439) Rabbit pAb

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