

SREBP-1 Rabbit pAb

CatalogNo: YT6055

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat, Golden hamster

Applications

- WB, IHC, IF, ELISA

MW

- 60kD, 120kD (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 1:500-1:2000

IHC 1:100-1:300

ELISA 1:20000

IF 1:50-200

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized peptide derived from human SREBP-1. at AA range: 250-330

Specificity This antibody detects endogenous levels of SREBP-1

Target Information

Gene name SREBF1 BHLHD1 SREBP1

Protein Name SREBP-1

Organism	Gene ID	UniProt ID
Human	6720 ;	P36956 ;
Mouse	20787 ;	Q9WTN3 ;

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

| Contact information

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SREBP-1 Rabbit pAb

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