

**SREBP-1 (PTR1391) mouse mAb**

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| <b>Catalog No :</b>          | YM4251  |
| <b>Reactivity :</b>          | Human; Mouse; Rat;  |
| <b>Applications :</b>        | WB;IF;ELISA   |
| <b>Target :</b>              | SREBP-1   |
| <b>Fields :</b>              | >>AMPK signaling pathway;>>Insulin signaling pathway;>>Insulin resistance;>>Non-alcoholic fatty liver disease;>>Alcoholic liver disease |
| <b>Gene Name :</b>           | SREBF1 BHLHD1 SREBP1  |
| <b>Protein Name :</b>        | SREBP-1   |
| <b>Human Gene Id :</b>       | 6720  |
| <b>Human Swiss Prot No :</b> | P36956  |
| <b>Mouse Gene Id :</b>       | 20787   |
| <b>Mouse Swiss Prot No :</b> | Q9WTN3  |
| <b>Immunogen :</b>           | AA range: 1-100   |
| <b>Specificity :</b>         | This antibody detects endogenous levels of SREBP-1 protein.   |
| <b>Formulation :</b>         | PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA  |
| <b>Source :</b>              | Mouse, Monoclonal   |
| <b>Dilution :</b>            | WB 1:500-2000;IF 1:100-500;ELISA 1:1000-5000;   |
| <b>Purification :</b>        | The antibody was affinity-purified from ascites by affinity-chromatography using specific immunogen.                                    |
| <b>Storage Stability :</b>   | -15°C to -25°C/1 year(Do not lower than -25°C)  |

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**Molecularweight :** 121kD

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**Observed Band :** 140kD

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**Cell Pathway :** Insulin\_Receptor;

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**Background :** This gene encodes a transcription factor that binds to the sterol regulatory element-1 (SRE1), which is a decamer flanking the low density lipoprotein receptor gene and some genes involved in sterol biosynthesis. The protein is synthesized as a precursor that is attached to the nuclear membrane and endoplasmic reticulum. Following cleavage, the mature protein translocates to the nucleus and activates transcription by binding to the SRE1. Sterols inhibit the cleavage of the precursor, and the mature nuclear form is rapidly catabolized, thereby reducing transcription. The protein is a member of the basic helix-loop-helix-leucine zipper (bHLH-Zip) transcription factor family. This gene is located within the Smith-Magenis syndrome region on chromosome 17. [provided by RefSeq, Mar 2016],

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**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 fr

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**Subcellular Location :** Membrane

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**Expression :** 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).

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## Products Images



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-SREBP-1 (PTR1391) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HeLa Lane 2: L6 Predicted band size: 121kDa Observed band size: 121kDa