

Rabbit Anti-Phospho-SREBP2 (Thr334)antibody

SL24294R

Product Name	Phospho-SREBP2 (Thr334)
Chinese Name	磷酸化胆固醇调节元件 Binding protein2 抗体
Alias	SREBP2(phospho T334); SREBP2(phospho Thr334); p-SREBP2(T334); p-SREBP2(Thr334); Sterol Regulatory Element Binding Protein-2; MGC124823; Srebtf2_retd; SREBP-2; SREBP2; SREBP-2; SRBP2_HUMAN; 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.
Product Type	Phosphorylated anti
Research Area	glycoprotein
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human,Mouse,Rat(predicted:Chicken,Pig,Cow,Horse,Rabbit,Sheep) WB=1:500-2000 (Paraffin sections need antigen repair)
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	126kDa
Cellular localization	The nucleus cytoplasmic
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated Synthesised phosphopeptide derived from human SREBP2 around the phosphorylation site of Thr334: RT(p-T)HN
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw

Attention

cycles.

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

PubMed

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This gene encodes a member of the a ubiquitously expressed transcription factor that controls cholesterol homeostasis by regulating transcription of sterol-regulated genes. The encoded protein contains a basic helix-loop-helix-leucine zipper (bHLH-Zip) domain and binds the sterol regulatory element 1 motif. Alternate splicing results in multiple transcript variants.

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.

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. Component of SCAP/SREBP complex composed of SREBF2, SCAP and RNF139; the complex hampers the interaction between SCAP and SEC24B, thereby reducing SREBF2 proteolytic processing. Interacts (via C-terminus domain) with RNF139.

Product Detail

Subcellular Location:

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=Moves from the endoplasmic reticulum to the Golgi in the absence of sterols. Processed sterol regulatory element-binding protein 2: Nucleus.

Tissue Specificity:

Ubiquitously expressed in adult and fetal tissues.

Post-translational modifications:

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.

Phosphorylated by AMPK, leading to suppress protein processing and nuclear translocation, and repress target gene expression (By similarity).

Similarity:

Belongs to the SREBP family.

Contains 1 bHLH (basic helix-loop-helix) domain.

SWISS:

Q12772

Gene ID:

6721

Database links:

[Entrez Gene: 395304](#) Chicken

[Entrez Gene: 6721](#) Human

[Entrez Gene: 20788](#) Mouse

[Entrez Gene: 396675](#) Pig

[Entrez Gene: 300095](#) Rat

[Entrez Gene: 443980](#) Xenopus laevis

[Omid: 600481](#) Human

[SwissProt: Q60429](#) Chinese Hamster

[SwissProt: Q12772](#) Human

[SwissProt: Q3U1N2](#) Mouse

[SwissProt: Q3T1I5](#) Rat

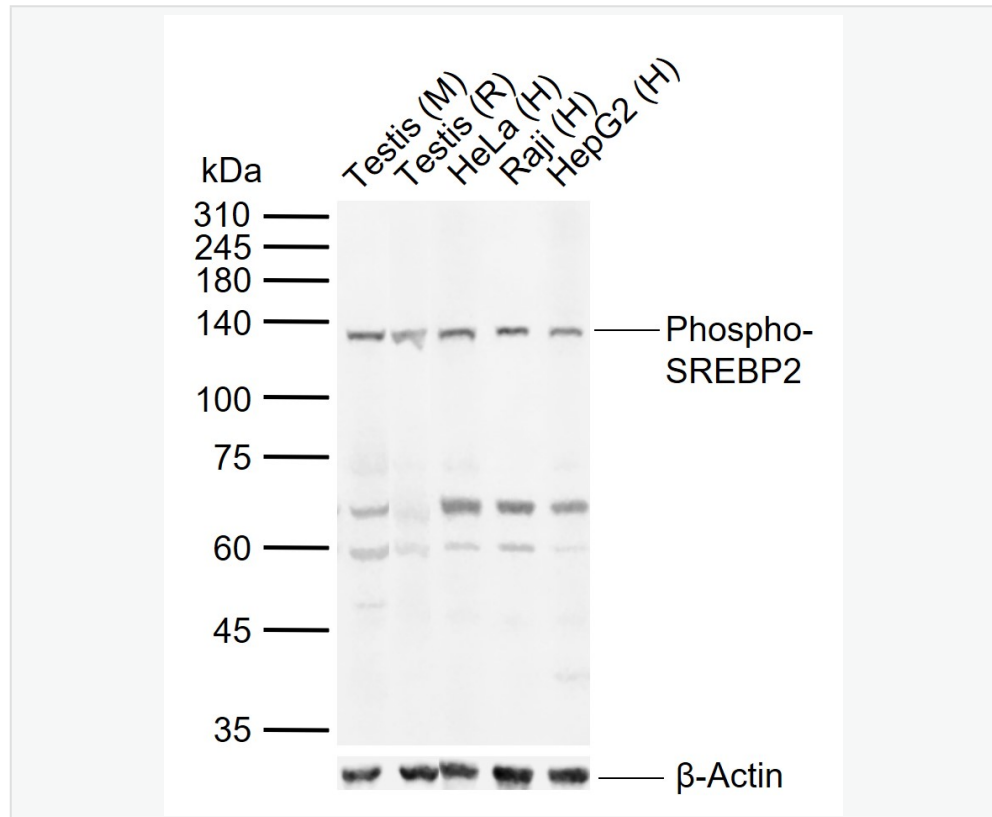
[SwissProt: Q6GQ26](#) Xenopus laevis

[Unigene: 443258](#) Human

[Unigene: 38016](#) Mouse

[Unigene: 41063](#) Rat

Product Picture



Sample:

Lane 1: Mouse Testis tissue lysates

Lane 2: Rat Testis tissue lysates

Lane 3: Human HeLa cell lysates

Lane 4: Human Raji cell lysates

Lane 5: Human HepG2 cell lysates

Primary: Anti-Phospho-SREBP2(Thr334) (SL24294R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 126 kDa



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Observed band size: 135 kDa