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Rabbit Anti-Phospho-SREBP2 (Thr334)antibody

SL24293R

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; Srebf2_retired; 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)
Applications	WB=1:500-2000 （Paraffin sections need antigen repair） 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℃. Store at -20 °C for one year. Avoid repeated freeze/thaw

cycles.

Attention

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

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Product Detail

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'-ATCACCCCAC-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.

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

Omim: 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

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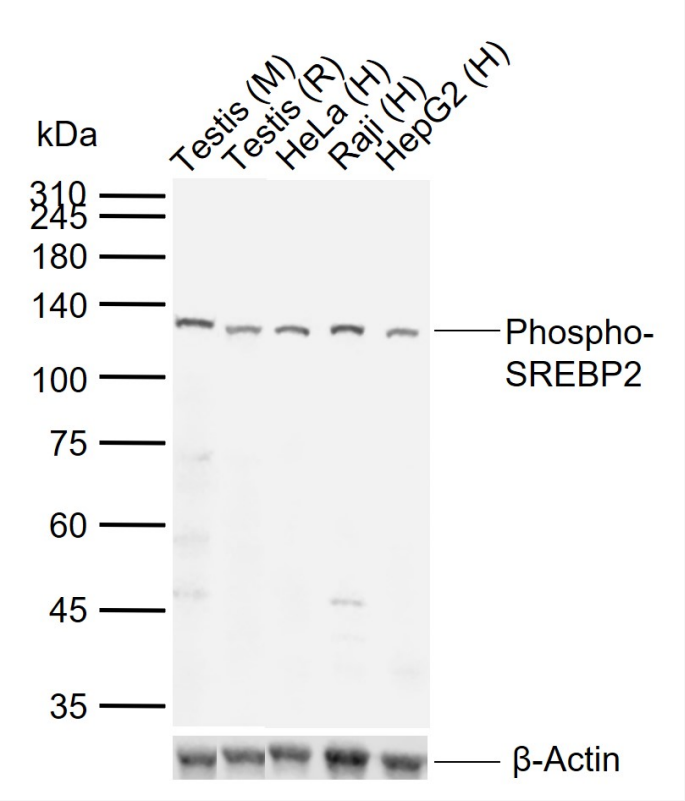
Product Picture



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) (SL24293R) 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: 130 kDa