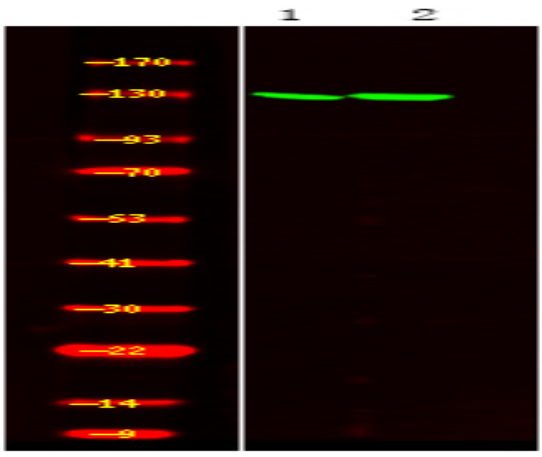
Best Tools for immunology Research

SREBP-2 (Phospho Ser455) rabbit pAb

Catalog No :	YP1727
Reactivity :	Human;Mouse;Rat
Applications :	WB
Target :	SREBP-2
Gene Name :	SREBF2 BHLHD2 SREBP2
Protein Name :	SREBP-2 (Phospho-Ser455)
Human Gene Id :	6721
Human Swiss Prot No :	Q12772
Mouse Gene Id :	20788
Mouse Swiss Prot No :	Q3U1N2
Rat Gene Id :	300095
Rat Swiss Prot No :	Q3T1I5
Immunogen :	Synthesized peptide derived from human SREBP-2 (Phospho-Ser455)
Specificity :	This antibody detects endogenous levels of SREBP-2 (Phospho-Ser455) at Human, Mouse,Rat
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000
Purification :	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.

Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	126kD
Background :	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. [provided by RefSeq, Jul 2013],
Function :	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.,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.,similarity:Belongs to the SREBP family.,similarity:Contains 1 basic
Subcellular Location :	[Sterol regulatory element-binding protein 2]: 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 (PubMed:32322062). Low sterol concentrations promote recruitment into COPII-coated vesicles and transport of the SCAP-SREBP to the Golgi, where it is processed (PubMed:32322062). .; [Processed sterol regulatory element-binding protein 2]: Nucleus . Transported into the nucleus with the help of importin-beta. Dimerization of the bHLH domain is a prerequisite for importin beta-dependent nuclear import. .
Expression :	Ubiquitously expressed in adult and fetal tissues.
Sort :	25206
No4 :	1
Host :	Rabbit
Modifications :	Phospho

Products Images



Western Blot analysis of HUVEC cell, HEK-293T cell ,using primary antibody at 1:1000 dilution. Secondary antibody(catalog#:RS23920) was diluted at 1:10000