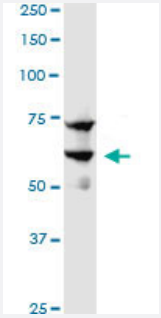
SREBF1 monoclonal antibody (M03), clone 4G4

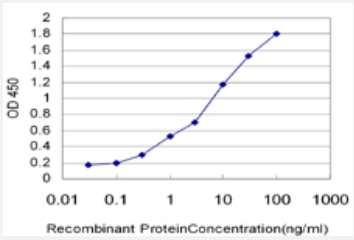
Catalog # H00006720-M03 Size 100 ug

Applications



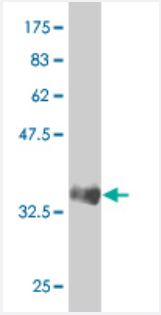
Western Blot (Cell lysate)

SREBF1 monoclonal antibody (M03), clone 4G4 Western Blot analysis of SREBF1 expression in HeLa (Cat # L013V1).



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged SREBF1 is approximately 0.03ng/ml as a capture antibody.



Western Blot detection against Immunogen (36.63 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant SREBF1.

Immunogen	SREBF1 (AAH57388, 801 a.a. ~ 900 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	VTQLFREHLLERALNCVTQPNPSPGSADGDKEFSDALGYLQLLNSCSDAAGAPAYSFSISSSMA TTTGVDPVAKWWASLTAVVIHWLRRDEEAAERLCPL
Host	Mouse
Reactivity	Human
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.63 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

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  Protocol Download

- Western Blot (Recombinant protein)

  Protocol Download

- Sandwich ELISA (Recombinant protein)

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  Protocol Download

- ELISA

Gene Info — SREBF1

Entrez GeneID	6720
GeneBank Accession#	BC057388
Protein Accession#	AAH57388

Gene Name	SREBF1
Gene Alias	SREBP-1c, SREBP1, bHLHd1
Gene Description	sterol regulatory element binding transcription factor 1
Omim ID	184756
Gene Ontology	Hyperlink
Gene Summary	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. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq
Other Designations	sterol regulatory element binding protein-1

Pathway

- Insulin signaling pathway

Disease

- Alzheimer disease
- Arteriosclerosis
- Atherosclerosis
- Breast cancer
- Breast Neoplasms
- Calcinosis
- Cardiovascular Diseases
- Coronary Artery Disease
- Coronary Disease
- Dementia

- Diabetes Complications
- Diabetes Mellitus
- Disease Progression
- Drug Toxicity
- Edema
- Fatty Liver
- Femur Head Necrosis
- Genetic Predisposition to Disease
- Hypercholesterolemia
- Hyperlipidemias
- Insulin Resistance
- Kidney Failure
- Metabolic Syndrome X
- Neoplasms
- Obesity
- Osteoporosis
- Renal Insufficiency
- Schizophrenia
- Weight Gain
- Werner syndrome