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SREBP2 Polyclonal Antibody

Catalog Number PA1-338 **Product Data Sheet**

Details	
Size	100µg
Host / Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Immunogen	Synthetic peptide corresponding to residues A(843) I S W L Q G D D A A V R S H(857) of rat SREBP 2.
Conjugate	Unconjugated
Form	Liquid
Concentration	1mg/ml
Purification	Antigen affinity chromatography
Storage Buffer	PBS with 1mg/ml BSA
Contains	0.05% sodium azide
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles

Species Reactivity	
Tested species reactivity	Human, Mouse, Rat
Published Species Reactivity	Mouse
Tested Applications	**Dilution ***
Immunocytochemistry (ICC)	1:20-1:200
Immunofluorescence (IF)	1:20-1:200
Western Blot (WB)	1:100-1:1000
Published Applications	
Western Blot (WB)	See 1 publications below

* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Product Specific Information

PA1-338 detects SREBP 2 in human, mouse and rat samples.

PA1-338 has been successfully used in Western blot and ICC/IF procedures. By Western blot, this antibody detects an ~68 and 120 kDa protein representing SREBP 2 in mouse and rat liver samples as well as rat kidney samples. A predominent band at ~68 kDa (active cleaved site) is seen and a band at ~120 kDa (inactive precursor) may not be seen or it may be diminished.

The PA1-338 immunogen is a synthetic peptide corresponding to residues A(843) I S W L Q G D D A A V R S H(857) of rat SREBP 2. This sequence is identical in human and differs by 1 a.a. in mouse. PA1-338 immunizing peptide (Cat. # PEP-275) is available for use in neutralization and control experiments.

Background/Target Information

Sterol regulatory element-binding proteins (SREBPs) are transcription factors that are members of the basic helix-loop-helix leucine zipper family of DNA binding proteins. Three isoforms have been identified in mammalian tissues that vary in structure, regulation, and function. SREBP-1a and SREBP-1c (originally cloned as ADD1) are protein products of alternative promoter usage of the SREBP-1 gene. The third isoform is transcribed from a different gene, SREBP-2.

SREBPs are present as 120 kDa inactive precursors in the endoplasmic reticulum (ER) membrane. Upon activation, the SREBP protein is translocated to the Golgi and proteolytic cleavage occurs resulting in a mature transcriptionally active 60-78 kDa fragment.

In liver and adipose tissues, SREBPs have a significant influence on lipid and cholesterol accumulation by inducing the transcription of genes involved in these processes. While SREBP-1 is thought to be more important in regulating the expression of genes involved in triglyceride synthesis and accumulation, SREBP-2 has been more closely linked to those involved in cholesterol synthesis and accumulation.

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