

产品名称: S2P Rabbit Polyclonal Antibody
产品货号: AP Rab17522



产品概述 (Summary)

产品名称 (Production Name)	S2P Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB, ICC/IF, ELISA
种属反应性 (Reactivity)	Human, Mouse, Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	MBTPS2 MBTPS2; S2P; Membrane-bound transcription factor site-2 protease;
别名 (Alternative Names)	Endopeptidase S2P; Sterol regulatory element-binding proteins intramembrane protease; SREBPs intramembrane protease
基因 ID (Gene ID)	51360.0
蛋白 ID (SwissProt ID)	O43462. The antiserum was produced against synthesized peptide derived from human MBTPS2. AA range: 301-350

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000, ICC/IF 1:200-1:1000, ELISA 1:10000-1:20000
蛋白分子量 (Molecular Weight)	

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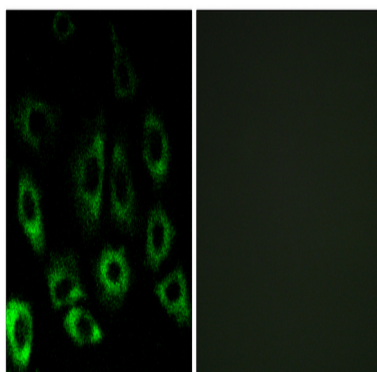
研究背景 (Background)

This gene encodes a intramembrane zinc metalloprotease, which is essential in development. This protease functions in the signal protein activation involved in sterol control of transcription and the ER stress response. Mutations in this gene have been associated with ichthyosis follicularis with atrichia and photophobia (IFAP syndrome); IFAP syndrome has been quantitatively linked to a reduction in cholesterol homeostasis and ER stress response.[provided by RefSeq, Aug 2009],catalytic activity:Cleaves several transcription factors that are type-2 transmembrane proteins within membrane-spanning domains. Known substrates include sterol regulatory element-binding protein (SREBP) -1, SREBP-2 and forms of the transcriptional activator ATF6. SREBP-2 is cleaved at the site 477-DRSRILL-|-CVLTFLCLSFNPLTSLLQWGGA-505. The residues Asn-Pro, 11 residues distal to the site of cleavage in the membrane-spanning domain, are important for cleavage by S2P endopeptidase. Replacement of either of these residues does not prevent cleavage, but there is no cleavage if both of these residues are replaced.,cofactor:Binds 1 zinc ion per subunit.,function:Intramembrane proteolysis of sterol-regulatory element-binding proteins (SREBPs) within the first transmembrane segment thereby releasing the N-terminal segment with a portion of the transmembrane segment attached. Site-2 cleavage comes after site-1 cleavage which takes place in the lumenal loop.,similarity:Belongs to the peptidase M50A family.,tissue specificity:Expressed in heart, brain, placenta, lung, liver, muscle, kidney and pancreas.,

研究领域 (Research Area)

Cardiovascular; Lipids / Lipoproteins; Lipid Metabolism; Cholesterol Metabolism; Signal Transduction; Metabolism; Cell Biology; Proteolysis / Ubiquitin; Proteolytic enzymes; Other proteases; Pathways and Processes; Metabolic signaling pathways; Lipid and lipoprotein metabolism

图片 (Image Data)



Immunofluorescence analysis of A549 cells, using MBTPS2 Antibody. The picture on the right is blocked with the synthesized peptide.

注意事项 (Note)

For research use only .

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