



# S2P Polyclonal Antibody

<b>Catalog No</b>	BYab-02775
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat
<b>Applications</b>	WB;IP;IF;ELISA
<b>Gene Name</b>	MBTPS2
<b>Protein Name</b>	Membrane-bound transcription factor site-2 protease
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human MBTPS2. AA range:301-350
<b>Specificity</b>	S2P Polyclonal Antibody detects endogenous levels of S2P protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	MBTPS2; S2P; Membrane-bound transcription factor site-2 protease; Endopeptidase S2P; Sterol regulatory element-binding proteins intramembrane protease; SREBPs intramembrane protease
<b>Observed Band</b>	
<b>Cell Pathway</b>	Membrane ; Multi-pass membrane protein . Cytoplasm .
<b>Tissue Specificity</b>	Expressed in heart, brain, placenta, lung, liver, muscle, kidney and pancreas.
<b>Function</b>	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

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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 com

#### 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],

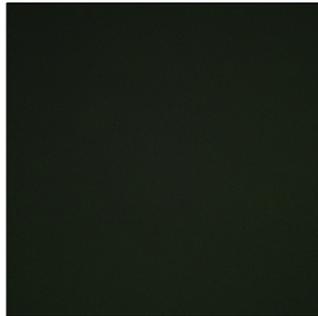
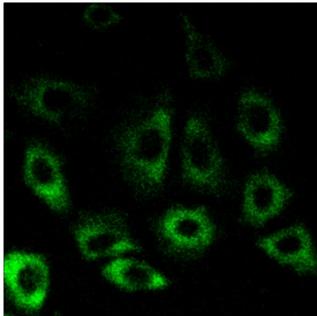
#### matters needing attention

Avoid repeated freezing and thawing!

#### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



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