abcam

Product datasheet

Anti-S1P antibody ab59870

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Overview

Product name	Anti-S1P antibody
Description	Rabbit polyclonal to S1P
Host species	Rabbit
Specificity	We have a range of domain specific antibodies for this target. For a full list please **see all MBTPS1 antibodies**. ab59870 recognizes all four forms of MBTPS1 (1052, 746, 607 and 552 amino acids in length).
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide based on the catalytic domain of human MBTPS1. Immunizing peptide available on request - please contact a member of staff to ask for availability.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.40 Preservative: 0.05% Sodium azide Constituents: PBS, 50% Glycerol, 2.9% Sodium chloride
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab59870 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

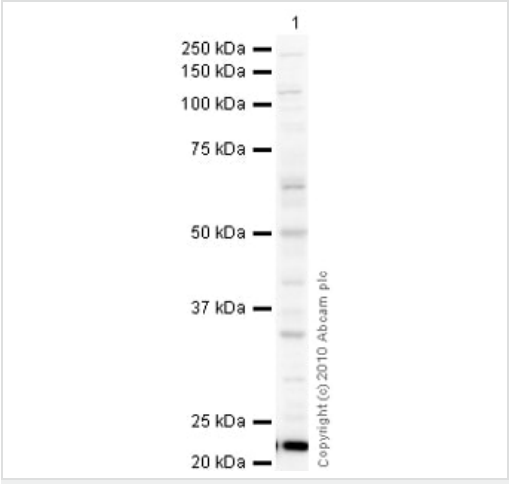
Application	Abreviews	Notes
WB	★★★★☆ **(2)**	1/1000 - 1/5000. Predicted molecular weight: 118 kDa. 1/1,000 when using colorimetric substrates such as BCIP/NBT, and 1/5,000 for chemiluminescent substrates.

Target

Relevance S1P (also known as MBTPS1,SKI1), was first discovered as one of two enzymes that cleave the sterol regulatory binding proteins (SREBPs), in the case of S1P at "site-1," a hydrophillic loop extending into the lumen of the ER. The MBTPS1 domain structure contains a signal sequence followed by a propeptide domain, a catalytic domain, a transmembrane domain and a cytoplasmic domain.

Cellular localization Endoplasmic reticulum membrane; Single-pass type I membrane protein. Golgi apparatus membrane; Single-pass type I membrane protein.

Images



Western blot - Anti-S1P antibody (ab59870)

Anti-S1P antibody (ab59870) at 1 µg/ml + HepG2 (Human hepatocellular liver carcinoma cell line) Whole Cell Lysate at 10 µg

Secondary
Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97080**) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 118 kDa

Exposure time: 16 minutes

The 148 kDa zymogen is processed progressively into two membrane-bound 120 and 106 kDa forms in the endoplasmic reticulum, and late into a secreted 98 kDa form. The propeptide is autocatalytically removed through an intramolecular cleavage after Leu-186. Further cleavage generates 14, 10, and 8 kDa intermediates.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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