abcam

Product datasheet

Anti-S1P1/EDG1 antibody ab140952

2 Abreviews 1 Image

Overview

Product name	Anti-S1P1/EDG1 antibody
Description	Rabbit polyclonal to S1P1/EDG1
Host species	Rabbit
Tested applications	**Suitable for:** IHC-P
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat, Horse, Hamster, Cow, Dog, Turkey, Pig, Xenopus laevis, Non human primates, Xenopus tropicalis
Immunogen	Synthetic peptide corresponding to Human S1P1/EDG1. Corresponds to a 16 residue sequence within the first cytoplasmic domain. Database link: **NP_001391.2**
Positive control	Human heart (vessel) tissue
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. Upon delivery aliquot. Store at -20°C.
Storage buffer	pH: 7.4 Preservative: 0.1% Sodium azide Constituent: 99% PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab140952 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
IHC-P		Use a concentration of 3 - 6 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

Function Receptor for the lysosphingolipid sphingosine 1-phosphate (S1P). S1P is a bioactive lysophospholipid that elicits diverse physiological effect on most types of cells and tissues. This inducible epithelial cell G-protein-coupled receptor may be involved in the processes that regulate the differentiation of endothelial cells. Seems to be coupled to the G(i) subclass of heteromeric G proteins.

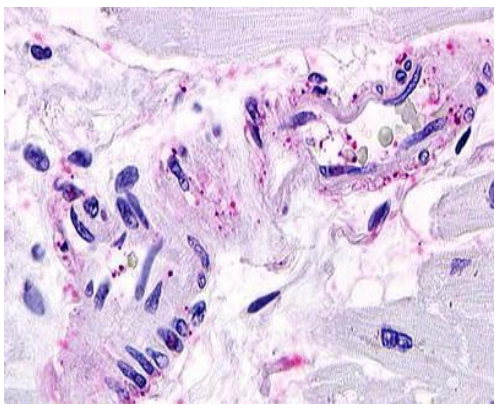
Tissue specificity Endothelial cells, and to a lesser extent, in vascular smooth muscle cells, fibroblasts, melanocytes, and cells of epithelioid origin.

Sequence similarities Belongs to the G-protein coupled receptor 1 family.

Post-translational modifications S1P-induced endothelial cell migration requires the PKB/AKT1-mediated phosphorylation of the third intracellular loop at the Thr-236 residue.

Cellular localization Cell membrane.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-S1P1/EDG1 antibody (ab140952)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human heart (vessel) tissue labeling S1P1/EDG1 with ab140952 at 6 µg/ml.

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