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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Sphingosine 1-Phosphate Phosphatase 1. Rabbit Polyclonal Antibody

BACKGROUND

Sphingosine 1-phosphate (S1P) is a highly bioactive lipid that has a myriad of biological effects both intracellularly as a second messenger and extracellularly by binding to the S1P(1-5)/G-protein-coupled receptors of the endothelial differentiation gene family. Intracellularly, at least two enzymes, sphingosine kinase (1 and 2) and S1P phosphatase, regulate the activity of S1P by governing the phosphorylation of S1P. Regulation of hS1Pase1 with the resultant changes in cellular and secreted S1P has important implications in cell proliferation, angiogenesis and apoptosis.

IMMUNOGEN

Synthetic peptide derived from the sphingosine 1-phosphate phosphatase 1 protein.

POSITIVE CONTROL/TISSUE EXPRESSION

Human brain lysate (Cat. No. X1633C)

COMMENTS

Antibody can be used for Western blotting (1:200 dilution). Tissue lysate should be used at 10-50 μ g/lane. Other applications not yet tested. Optimal concentration should be evaluated by serial dilutions.

ORDERING INFORMATION

CATALOG NUMBER

X1636P

SIZE

10 Miniblots

FORM

Unconjugated

HOST/CLONE

Rabbit

FORMULATION

Provided as ligand affinity purified antibody in phosphate buffered saline with 0.08% sodium azide

CONCENTRATION

See vial for concentration

ISOTYPE

IgG

APPLICATIONS

Western Blot

SPECIES REACTIVITY

Human

ACCESSION NUMBER

Q9BX95, Human

PURIFICATION

Ammonium Sulfate Precipitation

SHIP CONDITIONS

Ship on dry ice, freeze upon arrival

STORAGE CUSTOMER

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

STABILITY

Products are stable for one year from purchase when stored properly

REFERENCES

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3. Johnson, K.R., et al. "Role of human sphingosine 1-phosphate phosphatase 1 in the regulation of intra- and extracellular sphingosine 1-phosphate levels and cell viability." *J. Biol. Chem.* 2003, 278, 34541-34547
4. Cuvillier, O. "Sphingosine in apoptosis signalling." *Biochim. Biophys. Acta* 2002, 1585, 153-162
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6. Le Stunff, H., et al. "Characterization of murine sphingosine 1-phosphate phosphohydrolase." *J. Biol. Chem.* 2002, 277, 8920-8927
7. Birchwood, C.J., et al. "Calcium influx and signaling in yeast stimulated by intracellular sphingosine 1-phosphate accumulation." *J. Biol. Chem.* 2001, 276, 11712-11718