



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Sphingosine 1-Phosphate Phosphatase 2. Rabbit Antigen Immunoaffinity Purified Polyclonal
Sphingosine 1-Phosphate Phosphohydrolase

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. SPPase2 is localized to the endoplasmic reticulum. The enzymatic activity and localization of SPPase2 are similar to SPPase1. The tissue expression of SPPase2 was different from that of SPPase1. SPPase2 is an important member of the SPPase family which play a role in attenuating intracellular S1P signaling.

ORDERING INFORMATION

CATALOG NUMBER
X1637P

SIZE
10 Miniblots

FORM
Unconjugated

HOST/CLONE
Rabbit

FORMULATION
Provided as whole antiserum

CONCENTRATION
Whole serum

ISOTYPE
Not applicable

APPLICATIONS
Western Blot

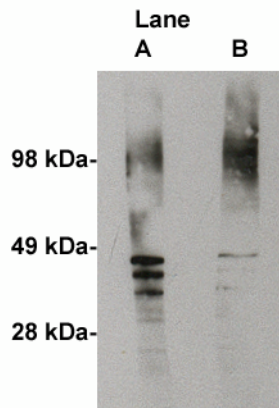
SPECIES REACTIVITY
Human

ACCESSION NUMBER
Human Q8IWX5

IMMUNOGEN

Synthetic peptide derived from the sphingosine 1-phosphate phosphatase 2 protein.

Western blot analysis using S1P Phosphatase 2 antibody catalog X1637P (0.5ug/ml) on human kidney lysate (15 ug/ml). Lane A] antibody alone, Lane B] antibody plus 3 ug blocking peptide (cat X1637B). Visualized using Pierce West Femto substrate system. Secondary used at 1:75k dilution. Exposure for 60 seconds.



POSITIVE CONTROL/TISSUE EXPRESSION

Human brain lysate (Cat. No. X1633C)

COMMENTS

Antibody can be used for Western blotting (1:400 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.

PURIFICATION

Antigen Immunoaffinity Purification

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

1. Mechtcheriakova D, et al. Sphingosine 1-phosphate phosphatase 2 is induced during inflammatory responses. *Cell Signal*. 2007 Apr;19(4):748-60. Epub 2006 Sep 30. [Links](#)
2. Grey, A., et al. 'Osteoblastic Cells Express Phospholipid Receptors and Phosphatases and Proliferate in Response to Sphingosine 1-Phosphate.' *Calcid Tissue Int*. 2004
3. Pettus, B.J., et al. 'The sphingosine kinase 1/sphingosine 1-phosphate pathway mediates COX-2 induction and PGE2 production in response to TNF-alpha.' *FASEB J*. 2003, 17, 1411-1421
4. 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
5. Cuvillier, O. 'Sphingosine in apoptosis signalling.' *Biochim. Biophys. Acta* 2002, 1585, 153-162
6. Ogawa, C., et al. 'Identification and characterization of a novel human sphingosine 1-phosphate phosphohydrolase, hSPP2.' *J. Biol. Chem*. 2003, 278, 1268-1272
7. Le Stunff, H., et al. 'Characterization of murine sphingosine 1-phosphate phosphohydrolase.' *J. Biol. Chem*. 2002, 277, 8920-8927
8. 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

PRODUCT SPECIFIC REFERENCES