

Sphingosine Kinase 1, Long Form, Rat. Rabbit Polyclonal Antibody , Rat

BACKGROUND

Rat sphingosine kinase 1 catalyzes the phosphorylation of sphingosine to form sphingosine 1-phosphate (spp)(sphingosine + ATP = sphingosine 1-phosphate + ADP), a lipid mediator with both intra- and extracellular functions. also acts on d-erythro-sphingosine and to a lesser extent sphinganine, but not other lipids, such as d,l-threo-dihydrosphingosine, n,n-dimethylsphingosine, diacylglycerol, ceramide, or phosphatidylinositol. The long form of sphingosine kinase 1, an N-terminal extension, is responsible for FcεRI-mediated calcium mobilization and may play a role in other ligand mediated signaling events.

ORDERING INFORMATION

CATALOG NUMBER
X2038P

SIZE
100 µg

FORM
Unconjugated

HOST/CLONE
Rabbit

FORMULATION
Provided as solution in phosphate buffered saline with 0.08% sodium azide

CONCENTRATION
1 mg/ml

ISOTYPE
IgG

APPLICATIONS
Western Blot

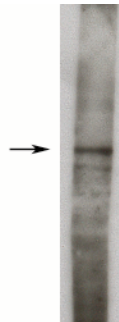
SPECIES REACTIVITY

Rat

IMMUNOGEN

Synthetic peptide derived from the rat sphingosine kinase 1, long form, protein.

Legend: Western blot of rat kidney lysate (10 ug/lane), detection of endogenous Sphingosine kinase 1, long form using X2038P (3 ug/ml), HRP anti-rabbit was used at 1:75k, and developed with Pierce's Super Signal West Femto.



For research use only. Not for use in human diagnostics or therapeutics.

POSITIVE CONTROL/TISSUE EXPRESSION**COMMENTS**

Antibody suitable for Western blots (1-5 μ g/ml). Optimal concentration should be evaluated by serial dilutions.

SHIP CONDITIONS

Ship at ambient temperature, 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. Venkataraman, K., et al. "Extracellular export of sphingosine kinase-1a contributes to the vascular S1P gradient." *Biochem. J.*, 2006, 397, 461-471

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