



Spingosine Kinase 1. Rabbit Polyclonal Antibody, Human, Rat, Mouse, Bovine

EC 2.7.1, SK 1, SPK 1, SPHK1, Gene name: SPHK1 or SPHK or SP

BACKGROUND

Sphingosine Kinase 1 (Sphk1) catalyzes the phosphorylation of sphingosine to sphingosine 1-phosphate (S1P), an important signaling molecule with intra- and extracellular functions. Inside the cell S1P acts as a signaling molecule like other sphingolipid metabolites like ceramide and sphingosine. S1P has been implicated in regulating cell differentiation, calcium mobilization from intracellular stores, and apoptosis. The cell surface receptors for S1P are the EDG family of G protein-coupled receptors (S1P Receptors). These receptors couple to multiple G proteins (e.g. S1P₁ couples to Gi whereas S1P₂ and S1P₃ couple to Gq, G13 in addition to Gi) and regulate a extremely wide range of cellular events including cell motility, survival, apoptosis, migration and cell-cell interaction. Important roles for S1P have also been reported in regulation of cardiogenesis, vascular maturation, oocyte survival, immune cell trafficking, cells of the neuronal system and bone cells. S1P levels are regulated by the activity of Sphk (Sphk1 and Sphk2).

ORDERING INFORMATION

CATALOG NUMBER
X1627P

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
Lot specific, see vial label

ISOTYPE
IgG

APPLICATIONS
Western Blot, ELISA

IMMUNOGEN

Synthetic peptide derived from the C-terminal of Spingosine Kinase 1

SPECIES REACTIVITY

Human, Rat, Mouse, Bovine

COMMENTS

Antibody can be used for Western blotting (1:400 dilution) and ELISA. Other applications not yet tested. Optimal concentration should be evaluated by serial dilutions.

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

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

POSITIVE CONTROL

Madin-Darby Bovine Kidney (MDBK) cell lysate
(Cat. No. X1007)

SHIP CONDITIONS

Ship on dry ice, freeze upon arrival

REFERENCES

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