

## **Sphingosine kinase 2, Long Form - Rabbit Polyclonal Antibody , Human**

### **BACKGROUND**

The long form of sphingosine kinase 2 (Sphk2-L) is a species-specific isoform of the Sphk2 enzyme expressed in human but not in mouse. It is an N-terminal extended form of Sphk2, extended by 36 amino acids. It functions as expected, catalyzing the formation of sphingosine 1-phosphate from sphingosine, however it appears to have a decreased ability to inhibit DNA synthesis as compared to Sphk2-S (short form of Sphk2). Under normal cellular conditions, Sphk2-L does not appear to inhibit DNA synthesis, but under serum deprivation, SphK2-L translocates to the nucleus and accumulates. This accumulation may be involved in the cessation of cell proliferation or apoptosis depending on the cell type.

### **ORDERING INFORMATION**

**CATALOG NUMBER**  
X1775P

**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**

**APPLICATIONS**  
ELISA, Western blot

### **IMMUNOGEN**

Synthetic peptide derived from the N-terminal extension of the Sphk2-L protein.

### **SPECIES REACTIVITY**

Human

### **COMMENTS**

Antibody can be used for Western blotting (1–5 µg/ml) and ELISA. Optimal concentration should be evaluated by serial dilutions.

### **STORAGE**

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/TISSUE EXPRESSION**

HEK293 cells

**SHIP CONDITIONS**

Ship at ambient temperature, freeze upon arrival

**REFERENCES**

1. Okada, T., et al. "Involvement of N-terminal-extended form of sphingosine kinase 2 in serum-dependent regulation of cell proliferation and apoptosis." J. Biol. Chem. 2005, 280, 36318–36325

**LAST MODIFIED** 11/7/2006

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