

SPHK1 Ab

[References\(2\)](#) [Images\(3\)](#)

Cat.#: DF6005	Concn.: ~1mg/ml	Mol.Wt.: 43kDa
Size:	Source: Rabbit	Clonality: Polyclonal
Application:	WB 1:500-1:2000, IHC 1:50-1:200 *The optimal dilutions should be determined by the end user.	
Reactivity:	Human,Mouse,Rat	
Storage:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at -20 °C. Stable for 12 months from date of receipt.	
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).	
Immunogen:	A synthesized peptide derived from human SPHK1, corresponding to a region within the internal amino acids.	
Uniprot:	Q9NYA1	
Description:	Sphingosine kinases (SPHKs) catalyze the phosphorylation of sphingosine to form sphingosine-1-phosphate (S1P), a lipid mediator with both intra- and extracellular functions. Together with other sphingolipid metabolizing enzymes, SPHKs regulate the balance of the lipid mediators, ceramide, sphingosine, and S1P (1-4). Two distinct SPHK isoforms, SPHK1 and SPHK2, have been cloned and characterized (5,6). SPHK1 and SPHK2 are highly conserved and diversely expressed (7,8). The SPHKs are activated by G-protein-coupled receptors, receptor tyrosine kinases, immunoglobulin receptors, cytokines, and other stimuli (9-12). The molecular mechanisms by which SPHK1 and SPHK2 are specifically regulated are complex and only partially understood.	

IMPORTANT: For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween@20 at 4°C with gentle shaking, overnight.

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