BOSTER[®] antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY

Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator, East Lake High-Tech Development Zone, Wuhan.

Web: www.boster.com Phone: 027-67845390/1/2 Email: boster@boster.com

Basic Information		
Product Name	Anti-SPHK1 Antibody	
Gene Name	SPHK1	
Source	Rabbit	
Clonality	Polyclonal	
lsotype	lgG	
Species Reactivity	human, mouse	
Tested Application	WB, IHC, ICC/IF, FCM	
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.	
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human SPHK1, different from the related rat sequence by two amino acids, and from the related mouse sequence by one amino acid.	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	45-50 kDa	
Dilution Ratios	Western blot (WB): Immunohistochemistry (IHC): Immunocytochemistry/Immunofluorescence (ICC/IF): Flow Cytometry (Fixed): (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or mins is required for the staining of formalin/paraffin sections determined by end user.	1 1

Storage

12 months from date of receipt, -20°C as supplied.

Background Information

SPHK1(Sphingosine Kinase 1), is an enzyme that in humans is encoded by the SPHK1 gene. Melendez et al.(2000) mapped the SPHK1 gene to chromosome 17q25.2 based on sequence identity with ESTs mapped to this region. Kohama et al.(1998) demonstrated that recombinant mouse Sphk1 can specifically phosphorylate D-erythro-sphingosine and that D, L-threodihydrosphingosine and N, N-dimethylsphingosine can act as competitive inhibitors of recombinant Sphk1. Pitson et al.(2000) found that recombinant SPHK1 and endogenous SPHK1 purified from placenta had identical enzymatic characteristics, suggesting posttranslational modification does not effect functional properties.

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Reference

Anti-SPHK1 Antibody被引用在2文献中。

Selected Validation Data



Western blot analysis of SPHK1 using anti-SPHK1 antibody (BA2865). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: RAJI whole cell lysates,

Lane 2: MCF-7 whole cell lysates,

Lane 3: Hut whole cell lysates,

Lane 4: HELA whole cell lysates,

Lane 5: 293T whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-SPHK1 antigen affinity purified polyclonal antibody (BA2865) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for SPHK1 at approximately 45-50 kDa. The expected band size for SPHK1 is at 43 kDa.



IHC analysis of SPHK1 using anti-SPHK1 antibody (BA2865). SPHK1 was detected in a paraffin-embedded section of human placenta tissue. The tissue section was incubated with rabbit anti-SPHK1 Antibody (BA2865) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.

Product datasheet Anti-SPHK1 Antibody Catalog Number: BA2865

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ICC analysis of SPHK1 using anti- SPHK1 antibody (BA2865). SPHK1 was detected in an immunocytochemical section of Hela cells. The section was incubated with rabbit anti-SPHK1 Antibody (BA2865) at a dilution of 1:100. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.



Flow Cytometry analysis of U87 cells using anti-SPHK1 antibody (BA2865). Overlay histogram showing U87 cells stained with BA2865 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-SPHK1 Antibody (BA2865, 1:100) for 30 min at 20°C. DyLight488 conjugated goat anti-rabbit IgG (BA1127, 1:100) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1:100) used under the same conditions. Unlabelled sample (Red line) was also used as a control.