

Anti-Sphingosine kinase 2 SphK2 Antibody

Catalog Number: A01382

About SPHK2

EIF4F is a multi-subunit complex, the composition of which varies with external and internal environmental conditions. It is composed of at least EIF4A, EIF4E and EIF4G1/EIF4G3. Interacts with eIF3, mutually exclusive with EIF4A1 or EIFA2, EIF4E and through its N-terminus with PAPBC1. Interacts through its C-terminus with the serine/threonine kinases MKNK1, and with MKNK2. Appears to act as a scaffold protein, holding these enzymes in place to phosphorylate EIF4E. Non-phosphorylated EIF4EBP1 competes with EIF4G1/EIF4G3 to interact with EIF4E; insulin stimulated MAP-kinase (MAPK1 and MAPK3) phosphorylation of EIF4EBP1 causes dissociation of the complex allowing EIF4G1/EIF4G3 to bind and consequent initiation of translation. EIF4G1/EIF4G3 interacts with PABPC1 to bring about circularization of the mRNA. Rapamycin can attenuate insulin stimulation mediated by FKBP. Interacts with EIF4E3. Interacts with MIF4GD. Interacts with rotavirus A NSP3; in this interaction, NSP3 takes the place of PABPC1 thereby inducing shutoff of host protein synthesis

De Gregorio, E. et al. (1998) RNA 4, 828-836.

Ohlmann, T. et al. (1996) EMBO J. 15, 1371-1382.

Borman, A.M. and Kean, K.M. (1997) Virology 237, 129-136.

Gradi, A. et al. (1998) Mol Cell Biol 18, 334-42.

Overview

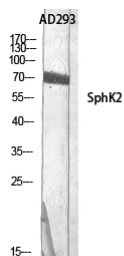
Product Name	Anti-Sphingosine kinase 2 SphK2 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Sphingosine kinase 2 SphK2 Antibody catalog # A01382. Tested in WB applications. This antibody reacts with Human, Mouse, Rat.
Application	WB
Clonality	Polyclonal
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q9NRA0

Technical Details

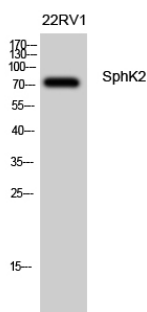
Immunogen	Synthesized peptide derived from human SphK2 around the non-phosphorylation site of T614.
Predicted Reactive Species	Bovine, Canine, Guinea Pig, Zebrafish

Isotype	IgG
Form	Liquid
Concentration	1 mg/mL.
Purification	Immunogen affinity purified
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: WB, 1:500-1:2000

Anti-Sphingosine kinase 2 SphK2 Antibody (A01382) Images



Western Blot (WB) analysis of AD293 using SphK2 Polyclonal antibody.



Western Blot (WB) analysis of 22RV1 cells using SphK2 Polyclonal antibody.

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