BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-Ephrin-B1/2 (Q324) EFNB1 Antibody

Catalog Number: A02767-1

About EFNB1

AMP/ATP-binding subunit of AMP-activated protein kinase (AMPK), an energy sensor protein kinase that plays a key role in regulating cellular energy metabolism. In response to reduction of intracellular ATP levels, AMPK activates energy-producing pathways and inhibits energy-consuming processes: inhibits protein, carbohydrate and lipid biosynthesis, as well as cell growth and proliferation. AMPK acts via direct phosphorylation of metabolic enzymes, and by longer-term effects via phosphorylation of transcription regulators. Also acts as a regulator of cellular polarity by remodeling the actin cytoskeleton; probably by indirectly activating myosin. Gamma non-catalytic subunit mediates binding to AMP, ADP and ATP, leading to activate or inhibit AMPK: AMP-binding results in allosteric activation of alpha catalytic subunit (PRKAA1 or PRKAA2) both by inducing phosphorylation and preventing dephosphorylation of catalytic subunits. ADP also stimulates phosphorylation, without stimulating already phosphorylated catalytic subunit. ATP promotes dephosphorylation of catalytic subunit, rendering the AMPK enzyme inactive.

Cheung P.C.F., Biochem. J. 346:659-669(2000).
Lang T.M., Genomics 70:258-263(2000).
Ota T., Nat. Genet. 36:40-45(2004).

Overview

Product Name	Anti-Ephrin-B1/2 (Q324) EFNB1 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Ephrin-B1/2 (Q324) EFNB1 Antibody catalog # A02767-1. Tested in IHC applications. This antibody reacts with Human,Mouse,Rat.
Application	IHC
Clonality	Polyclonal
Formulation	Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2
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	P98172/P52799

Technical Details

Immunogen	Synthesized peptide derived from human TGFbeta RIII around the phosphorylation site of T842.
Predicted Reactive Species	Boar, Bovine, Canine, Golden Hamster
Isotype	IgG

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Form	Liquid
Concentration	1 mg/ml
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).
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: IHC: 1:50-1:200

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-Ephrin-B1/2 (Q324) EFNB1 Antibody (A02767-1) Images

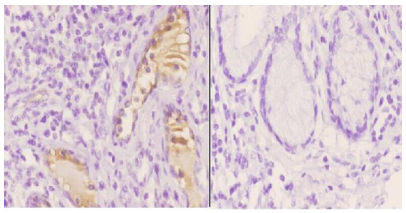

Figure 1. Immunohistochemistry validation of EFNB1 using Anti-Ephrin-B1/2 (Q324) EFNB1 Antibody (A02767-1).

Immunohistochemistry (IHC) analyzes of Ephrin-B1/2 (Q324) pAb in paraffin-embedded human esophageal carcinoma tissue at 1:50.showing cytoplasmic staining. Negative control (the right)Using PBS instead of primary antibody