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

Anti-PIKE AGAP2 Antibody

Catalog Number: A04771-1

About AGAP2

Phosphoinositide 3 kinase enhancer (PIKE) is a recently identified nuclear GTPase that interacts with nuclear phosphoinositide 3-kinase (PI3 kinase) to stimulate its lipid kinase activity. PIKE exists in multiple isoforms; a shorter C-terminal isoform (PIKE-A) has also been identified as centaurin gamma 1. The longest isoform (PIKE-L) has been shown to bind to the adaptor protein Homer and thereby link to metabotropic glutamate receptors, leading to activation of PI3 kinase activity and prevention of neuronal apoptosis. Overexpression of PIKE-A enhances Akt activity and promotes cancer cell invasion, whereas decreased expression of PIKE-A via dominant negative expression of PIKE-A or PIKE-A knockdown inhibits these processes. In many human cancers, expression of PIKE-A is enhanced, leading to increased Akt activity and preventing apoptosis.

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Overview

Product Name	Anti-PIKE AGAP2 Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-PIKE AGAP2 Antibody (Catalog # A04771-1). Tested in ELISA, WB, IHC-P applications. This antibody reacts with Human, Mouse.
Application	ELISA, IHC-P, WB
Clonality	Polyclonal
Formulation	PIKE Antibody is supplied in PBS containing ≤0.09% sodium azide.
Storage Instructions	PIKE antibody can be stored at 4°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q99490

Technical Details

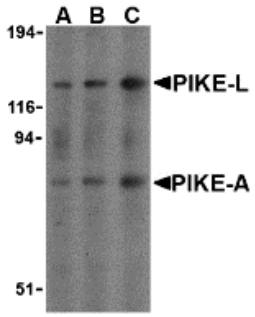
Immunogen	PIKE antibody was raised against a peptide corresponding to 15 amino acids near the C-terminus of human PIKE. The immunogen is located within the last 50 amino acids of PIKE.
Predicted Reactive Species	Rat

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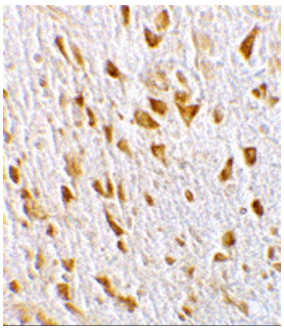
Cross Reactivity	Anti-PIKE will detect both PIKE-L and PIKE-A isoforms.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	PIKE Antibody is Ion exchange chromatography purified.
Suggested Dilutions	PIKE antibody can be used for detection of PIKE by Western blot at 0.5 to 2 ug/mL. Antibody can also be used for immunohistochemistry starting at 10 ug/mL. Antibody validated: Western Blot in mouse samples and Immunohistochemistry in mouse samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

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Anti-PIKE AGAP2 Antibody (A04771-1) Images



Western blot analysis of PIKE in mouse brain cell lysates with PIKE antibody at (A) 0.5, (B) 1, and (C) 2 ug/mL.



Immunohistochemistry of PIKE in mouse brain tissue with PIKE antibody at 10 ug/mL.

Anti-PIKE AGAP2 Antibody

For Research Use Only. Not for use in diagnostic procedures.