BOSTER BIOLOGICAL TECHNOLOGY
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Anti-KCNK12 Antibody

Catalog Number: A14172-1

About KCNK12

KCNK13 and KCNK12 (also known as THIK1 and 2) are the first two members of a novel two pore-forming P domains K+ channels subfamily. The pore loop domain, a highly conserved region common to all potassium channels, is involved in determining potassium ion selectivity. Members of this family are all characterized by four transmembrane domains and may function to help influence the resting membrane potential of cells. KCNK12 is expressed mainly in the brain and lung, but also observed in the kidneys, heart and skeletal muscle. KCNK12 is closely related to KCNK13 (58% identity at the amino acid level), but could not yet been functionally expressed in vitro and may require other proteins to become active.

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Overview

Product Name	Anti-KCNK12 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-KCNK12 Antibody (Catalog # A14172-1). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	KCNK12 Antibody is supplied in PBS containing ≤0.09% sodium azide.
Storage Instructions	KCNK12 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	Q9HB15

Technical Details

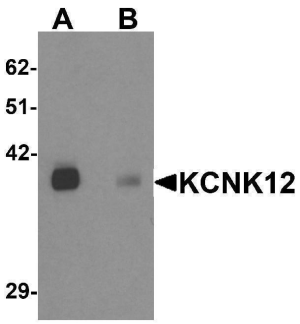
Immunogen	KCNK12 antibody was raised against a 14 amino acid synthetic peptide near the carboxy terminus of human KCNK12. The immunogen is located within amino acids 320 - 370 of KCNK12.
Predicted Reactive Species	Bovine, Mouse, Rat

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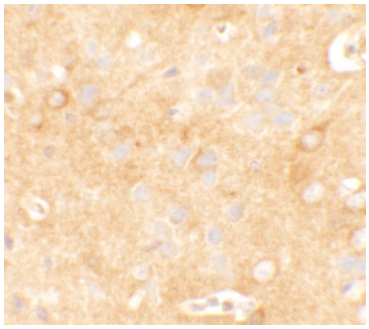
Cross Reactivity	KCNK12 antibody is predicted to not cross-react with other KCNK protein family members.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	KCNK12 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	KCNK12 antibody can be used for detection of KCNK12 by Western blot at 0.5 ug/mL. Antibody can also be used for immunohistochemistry starting at 5 ug/mL. For immunofluorescence start at 20 ug/mL. Antibody validated: Western Blot in rat samples; Immunohistochemistry in mouse samples and Immunofluorescence 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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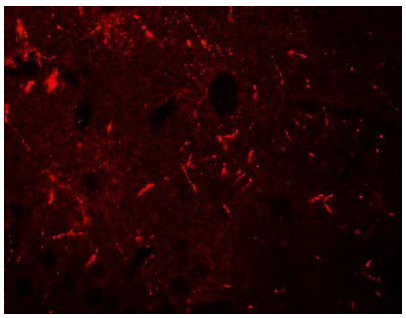
Anti-KCNK12 Antibody (A14172-1) Images



Western blot analysis of KCNK12 in rat brain tissue lysate with KCNK12 antibody at 0.5 ug/mL in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of KCNK12 in mouse brain tissue with KCNK12 antibody at 5 ug/mL.



Immunofluorescence of KCNK12 in mouse brain tissue with KCNK12 antibody at 20 ug/mL.

Anti-KCNK12 Antibody

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