

Anti-TRESK KCNK18 Antibody

Catalog Number: A07164

Introduction

CD3epsilon is a 20kD chain, which together with CD3lambda, CD3delta, and CD3zeta, and a T cell receptor (alpha/beta or gamma/delta) form the CD3/T-cell receptor complex. It is a specific marker for T lymphocytes, NK T cells, and some thymocytes. Crosslinking of TCR initiates an intracellular signaling cascade resulting in cellular activation and proliferation. The OKT3 antibody has been reported to have potent immunosuppressive properties in vivo and has been proved effective in the treatment of renal, heart, and liver allograft rejection.

This antibody is routinely tested by flow cytometric analysis. Flow cytometry and other applications were tested during antibody development or are reported in the literature.

Application Information

Each lot of this antibody has been quality control tested by flow cytometric analysis of human PBMCs. For flow cytometric staining, the recommended use of this antibody is $\leq 0.5\mu\text{g}$ per 1×10^6 cells in $100\mu\text{l}$ of staining volume followed by a secondary fluorescent conjugated anti-mouse antibody. However, it is strongly suggested that the antibody reactivity be empirically titrated for optimal performance in the application of interest.

About KCNK18

TRESK (TWIK-related spinal cord K⁺ channel) is a two-pore domain K⁺ channel that induces outward rectification and functions as a background K⁺ channel that is abundantly expressed in the spinal cord, thymus, spleen, and leukemic T-lymphocytes. TRESK is activated by increased cytoplasmic calcium concentration through calcineurin as well as by acetylcholine and histamine. It has been suggested that TRESK is linked to acute and chronic pain by activation of calcineurin. Other studies indicate that TRESK may play a role in the regulation of T-cell function and could be an excellent target to treat T-cell originated immune dysfunction.

Overview

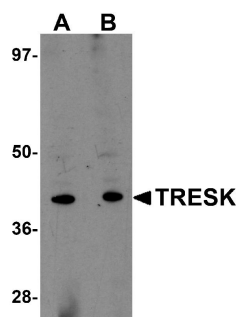
Product Name	Anti-TRESK KCNK18 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-TRESK KCNK18 Antibody (Catalog # A07164). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat.
Conjugate	Biotin
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal SK7
Formulation	TRESK Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	TRESK antibody can be stored at 4°C for three months and -20°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	Q7Z418

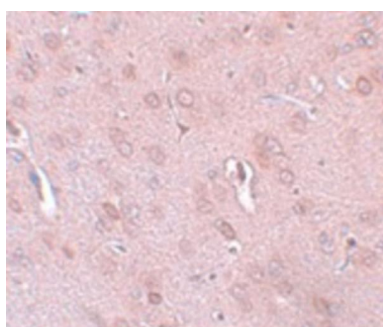
Technical Details

Immunogen	TRESK antibody was raised against a 17 amino acid synthetic peptide from near the center of human TRESK. The immunogen is located within amino acids 210 - 260 of TRESK.
Predicted Reactive Species	Bovine
Cross Reactivity	GBP5 antibody is predicted to not cross-react with other GBP family members.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	TRESK Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>TRESK antibody can be used for detection of TRESK by Western blot at 1 - 2 ug/mL. Antibody can also be used for immunohistochemistry starting at 5 ug/mL. For immunofluorescence start at 20 ug/mL.</p> <p>Antibody validated: Western Blot in rat samples; Immunohistochemistry in rat samples and Immunofluorescence in rat samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.</p>

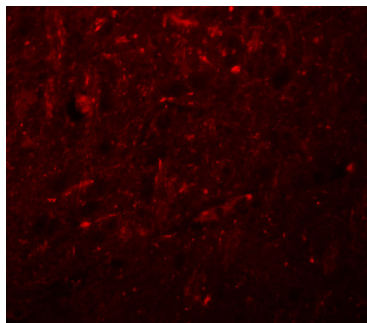
Anti-TRESK KCNK18 Antibody (A07164) Images



Western blot analysis of TRESK in rat brain tissue lysate with TRESK antibody at (A) 1 and (B) 2 ug/mL.



Immunohistochemistry of TRESK in rat brain tissue with TRESK antibody at 5 ug/mL.



Immunofluorescence of TRESK in Rat Brain cells with TRESK antibody at 20 ug/mL.

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