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Zuschläge

- Mindermengenzuschlag
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- Expressversand

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Anti-TASK1 Potassium Channel Antibody [S374-48]

Mouse Anti-Rat TASK1 Potassium Channel Monoclonal
IgG2b
Catalog No. SMC-473



Overview

Product Name

TASK1 Potassium Channel Antibody

Description

Mouse Anti-Rat TASK1 Potassium Channel Monoclonal IgG2b

Species Reactivity

Human, Mouse, Rat

Applications

WB, IHC, ICC/IF

Antibody Dilution

WB (1:1000), ICC/IF (1:100); optimal dilutions for assays should be determined by the user.

Host Species

Mouse

Immunogen Species

Rat

Immunogen

Fusion protein amino acids 251-411 (cytoplasmic C-terminus) of rat Acid-sensitive potassium channel protein TASK or TASK1. Mouse: 96% identity (156/161 amino acids identical). Human: 76% identity (163/161 amino acids identical). <30% identity with TASK3.

Concentration

1 mg/ml

Conjugates

Alkaline Phosphatase, APC, ATTO 390, ATTO 488, ATTO 565, ATTO 594, ATTO 633, ATTO 655, ATTO 680, ATTO 700, Biotin, FITC, HRP, PE/ATTO 594, PerCP, RPE, Streptavidin, Unconjugated

Properties

Storage Buffer

PBS pH 7.4, 50% glycerol, 0.1% sodium azide

Storage Temperature

-20°C

Shipping Temperature

Blue Ice or 4°C

Purification

Protein G Purified

Clonality

Monoclonal

Clone Number

S374-48

Isotype

IgG2b

Specificity

Detects ~50kDa. Does not cross-react with TASK3.

Cite This Product

Mouse Anti-Rat TASK1 Monoclonal, Clone S374-48 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-473)

Certificate Of Analysis

1 µg/ml of SMC-473 was sufficient for detection of TASK1 Potassium Channel in 20 µg of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

Biological Description

Alternative Names

Potassium channel subfamily K member 3 Antibody, KCNK3 Antibody, Acid sensitive potassium channel protein TASK 1 Antibody, Cardiac two pore background K(+) channel Antibody, cTBAK 1 Antibody, K2p3.1 Antibody, KCNK9 Antibody, OAT1 Antibody, potassium channel subfamily K member 3 Antibody, rTASK Antibody, TASK 1 Antibody, TBAK1 Antibody, TWIK related acid sensitive K+ channel Antibody, Two pore potassium channel KT3.1 Antibody, Two pore K(+) channel KT3.1 Antibody

Research Areas

Ion Channels, Neuroscience, Potassium Channels, Tandem Pore Domain Potassium Channels

Cellular Localization

Membrane

Accession Number

NP_203694.1

Gene ID

29553

Swiss Prot

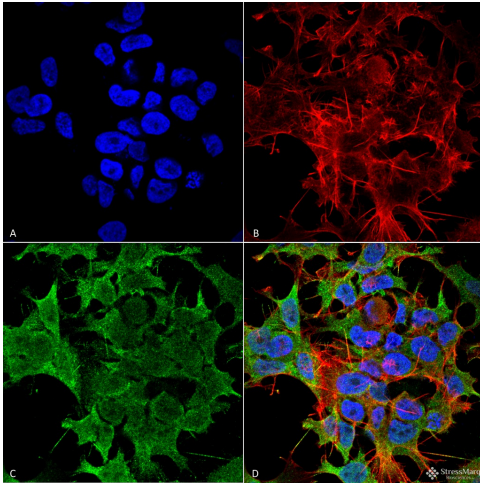
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Scientific Background

K+ channels are divided into three subclasses reflecting the number of transmembrane segments (TMS), which are designated 6TMS, 4TMS and 2TMS. Members of the 4TMS class contain two distinct pore regions and include TWIK, TREK, TRAAK and TASK. TASK channels are highly sensitive to external pH in the physiological range. TASK-1 is expressed in brain and in rat heart, with high levels of expression in the right atrium. TASK-2, mainly expressed in kidney, is localized in cortical distal tubules and collecting ducts, suggesting a role in renal K+ transport. TASK-3 from rat cerebellum shares 54% identity with TASK-1, but less than

30% identity with TASK-2 and other tandem pore K⁺ channels.

Product Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-TASK1 Potassium Channel Monoclonal Antibody, Clone S374-48 (SMC-473). Tissue: Neuroblastoma cell line SK-N-BE. Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-TASK1 Potassium Channel Monoclonal Antibody (SMC-473) at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60min RT, 5min RT. Localization: Membrane. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) TASK1 Potassium Channel Antibody (D) Composite.

Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.