

Mouse anti-Mouse, Rat TASK1 Potassium Channel Monoclonal Antibody | anti-Kcnk3 antibody

TASK1 Potassium Channel Antibody

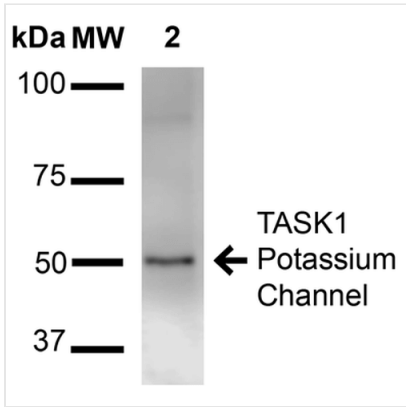
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA102957	Mouse	Mouse, Rat	Immunohistochemistry, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

TASK1 Potassium Channel; Monoclonal Antibody; TASK1 Potassium Channel Antibody; Potassium channel subfamily K member 3; KCNK3; Acid sensitive potassium channel protein TASK 1; Cardiac two pore background K(+) channel; cTBAK 1; K2p3.1; KCNK9; OAT1; potassium channel subfamily K member 3; rTASK; TASK 1; TBAK1; anti-Kcnk3 antibody

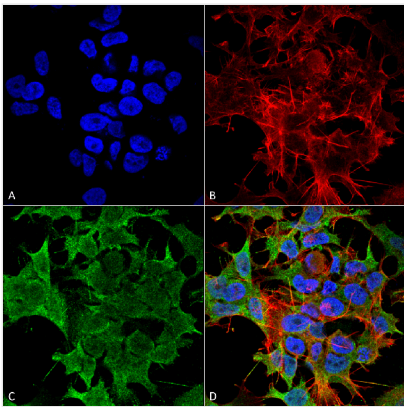
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Mouse, Rat
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	S374-48
Form/Format	Protein G Purified
Concentration	1mg/mL (varies by lot)
Sequence Length	411
Applicable Applications for anti-Kcnk3 antibody	IHC (Immunohistochemistry), ICC (Immunocytochemistry), WB (Western Blot)
Certificate of Analysis	1ug/mL was sufficient for detection of TASK1 Potassium Channel in 20 ug of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.
Storage Buffer	PBS pH 7.4, 50% glycerol, 0.1% sodium azide
Preparation and Storage	-20 degree C



WB (Western Blot)

Western Blot analysis of Rat Brain Membrane showing detection of ~50 kDa TASK1 Potassium Channel protein using Mouse Anti-TASK1 Potassium Channel Monoclonal Antibody, Clone S374-48 . Lane 1: Molecular Weight Ladder (MW). Lane 2: Rat brain membrane. Load: 15 ug. Block: 2% BSA and 2% Skim Milk in 1X TBST. Primary Antibody: Mouse Anti-TASK1 Potassium Channel Monoclonal Antibody at 1:1000 for 16 hours at 4 degree C. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:2000 for 60 min at RT. Color Development: ECL solution for 6 min at RT. Predicted/Observed Size: ~50 kDa.



ICC (Immunocytochemistry)

Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-TASK1 Potassium Channel Monoclonal Antibody, Clone S374-48 . 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 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.

ADDITIONAL INFORMATION

Related Product Information for anti-Kcnk3 antibody	Background Info: Detects a 50 kDa protein. Does not cross-react with TASK3. 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 Categories/Family for anti-Kcnk3 antibody	Neuroscience

NCBI AND UNIPROT INFORMATION

NCBI GI #	15431283
NCBI GeneID	29553
NCBI Accession #	NP_203694.1
NCBI GenBank Nucleotide #	NM_033376.1
UniProt Accession #	O54912
Molecular Weight	45,276 Da
NCBI Official Full Name	potassium channel subfamily K member 3
NCBI Official Synonym Full Names	potassium channel, subfamily K, member 3
NCBI Official Symbol	Kcnk3
NCBI Official Synonym Symbols	rTASK; Task-1
NCBI Protein Information	potassium channel subfamily K member 3; two pore K(+) channel KT3.1; two pore potassium channel KT3.1; TWIK-related acid-sensitive K+ channel; TWIK-related acid-sensitive K(+) channel 1; acid-sensitive potassium channel protein TASK-1

UniProt Protein Name	Potassium channel subfamily K member 3
UniProt Gene Name	Kcnk3
UniProt Synonym Gene Names	Task; Task1; Two pore K(+) channel KT3.1
UniProt Entry Name	KCNK3_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/task1-potassium-channel-antibody-clone-s374-48-immunohistochemistry-immunocytochemistry-western-blot-elisa/102957>