

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

TASK1 Potassium Channel Antibody: ATTO 488

| CATALOG # | HOST  | REACTIVITY | APPLICATIONS                                            |
|-----------|-------|------------|---------------------------------------------------------|
| AAA103479 | Mouse | Mouse, Rat | Immunohistochemistry, Immunocytochemistry, Western Blot |

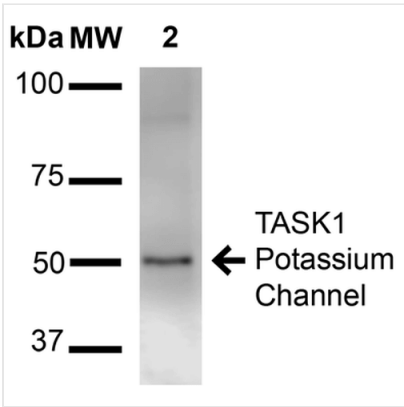
### PRODUCT SYNONYMS

TASK1 Potassium Channel; Monoclonal Antibody; TASK1 Potassium Channel Antibody: ATTO 488; 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

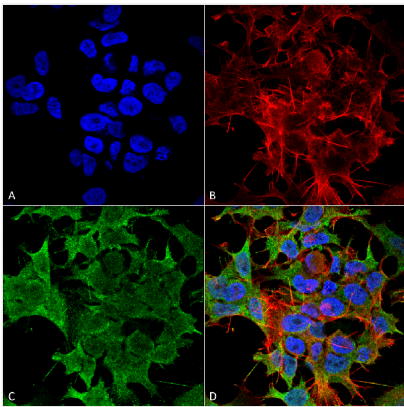
|                                                 |                                                                          |
|-------------------------------------------------|--------------------------------------------------------------------------|
| Host                                            | 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) |
| Conjugate                                       | ATTO 488                                                                 |
| Storage Buffer                                  | PBS pH 7.4, 50% glycerol, 0.1% sodium azide                              |
| Preparation and Storage                         | -20 degree C                                                             |

IMAGES



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

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-Kcnk3 antibody</b> | <b>Background Info:</b> Detects a 50 kDa protein. Does not cross-react with TASK3.<br><br><b>Scientific Background:</b> K <sup>+</sup> 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 <sup>+</sup> 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 <sup>+</sup> channels. |
| <b>Product Categories/Family for anti-Kcnk3 antibody</b>   | 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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/task1-potassium-channel-antibody-clone-s374-48-immunohistochemistry-immunocytochemistry-western-blot-elisa/103479>