**Product Name: TASK-1 Rabbit Polyclonal Antibody**
**Catalog #: APRab18651**
For research use only.

## Summary

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| **Description** | Rabbit polyclonal Antibody |
| **Host** | Rabbit |
| **Application** | WB,ELISA |
| **Reactivity** | Human,Mouse,Rat |
| **Conjugation** | Unconjugated |
| **Modification** | Unmodified |
| **Isotype** | IgG |
| **Clonality** | Polyclonal |
| **Form** | Liquid |
| **Concentration** | 1mg/ml |
| **Storage** | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles. |
| **Shipping** | Ice bags |
| **Buffer** | Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N. |
| **Purification** | Affinity purification |

## Application

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|---|---|
| **Dilution Ratio** | WB 1:500-1:2000,ELISA 1:5000-1:20000 |
| **Molecular Weight** | 53kDa |

## Antigen Information

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|---|---|
| **Gene Name** | KCNK3 |
| **Alternative Names** | KCNK3; TASK; TASK1; Potassium channel subfamily K member 3; Acid-sensitive potassium channel protein TASK-1; TWIK-related acid-sensitive K(+) channel 1; Two pore potassium channel KT3.1; Two pore K(+) channel KT3.1 |
| **Gene ID** | 3777.0 |
| **SwissProt ID** | O14649 |
| **Immunogen** | The antiserum was produced against synthesized peptide derived from human TASK-1. AA range:47-96 |

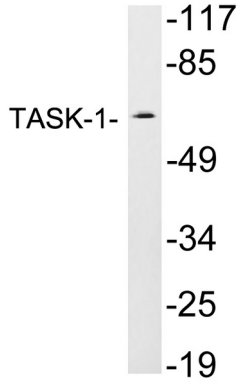
## Background

This gene encodes a member of the superfamily of potassium channel proteins that contain two pore-forming P domains. The encoded protein is an outwardly rectifying channel that is sensitive to changes in extracellular pH and is inhibited by extracellular acidification. Also referred to as an acid-sensitive potassium channel, it is activated by the anesthetics halothane and isoflurane. Although three transcripts are detected in northern blots, there is currently no sequence available to confirm transcript variants for this gene. [provided by RefSeq, Aug 2008],function:pH-dependent, voltage-insensitive, background potassium channel protein. Rectification direction results from potassium ion concentration on either side of the membrane. Acts as an outward rectifier when external potassium concentration is low. When external potassium concentration is high, current is inward.,miscellaneous:Inhibited by external acidification. Activated by halothane and isoflurane.,similarity:Belongs to the two pore domain potassium channel (TC 1.A.1.8) family.,tissue specificity:Widespread expression in adult. Strongest expression in pancreas and placenta. Lower expression in brain, lung, prostate, heart, kidney, uterus, small intestine and colon.,

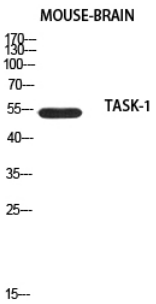
## Research Area

Neuroscience; Neurotransmission; Receptors / Channels; Potassium Channels

## Image Data




Western blot analysis of lysates from JAR cells, using TASK-1 antibody.




Western blot analysis of mouse-brain using TASK-1 antibody. Antibody was diluted at 1:500. Secondary antibody was diluted at 1:20000