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Datasheet for 200-301-W85

TASK1 Potassium Channel Antibody

Overview

Description:	Anti-TASK1 Potassium Channel (MOUSE) Monoclonal Antibody - 200-301-W85
Item No.:	200-301-W85
Size:	100 µg
Applications:	IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Mouse

Product Details

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. Anti-TASK1 Potassium Channel Antibody is ideal for research in Neuroscience, particularly studies concerning the dopaminergic neuron and melatonin signaling.
Synonyms:	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
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	S374-48
Format:	IgG2b

Target Details

Gene Name:	Kcnk3

Reactivity:	Human, Mouse, Rat
Immunogen Type:	Recombinant Protein
Immunogen:	Anti-TASK1 Potassium Channel Antibody was produced by repeated immunization of mice with a fusion protein containing amino acids 251-411 of rat TASK1.
Purity/Specificity:	Anti-TASK1 Potassium Channel Antibody was purified from concentrated tissue culture supernate by Protein G chromatography. BLAST analysis suggests that it is 96% identical to mouse, 76% identical to human, and <30% identical to TASK3.
Relevant Links:	• NCBI - NP_203694 • UniProtKB - O54912 • GeneID - 29553

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-TASK1 Potassium Channel Antibody is suitable for Western Blots, Immunohistochemistry and Immunocytochemistry. Expect a band approximately ~50kDa on specific lysates or tissues. Does not cross react with TASK3. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
WB:	1:1000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/ml by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.1% (w/v) Sodium Azide
Stabilizer:	50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Wet Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Disclaimer

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