

Datasheet for 200-366-W85**TASK1 Potassium Channel Antibody Streptavidin****Overview**

Description:	Anti-TASK1 Potassium Channel (MOUSE) Monoclonal Antibody Streptavidin Conjugated - 200-366-W85
Item No.:	200-366-W85
Size:	100 µg
Reactivity:	Mus musculus (Mouse), Rattus (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
Conjugate:	Streptavidin
Clonality:	Monoclonal
Clone ID:	S374-48
Format:	IgG2b

Target Details

Gene Name:	Kcnk3
-------------------	-------

Reactivity:	Mus musculus (Mouse), Rattus (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:	• UniProtKB - O54912 • GeneID - 29553 • NCBI - NP_203694

Application Details

Application Note:	Anti-TASK1 Potassium Channel Streptavidin Conjugated 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:	1mg/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

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.