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Product datasheet for AM60055PU-N

Kcnk3 (251-411, Cytopl. Dom.) Mouse Monoclonal Antibody [Clone ID: S374-48]

Product data:

Product Type:	Primary Antibodies
Clone Name:	S374-48
Applications:	IF, IHC, WB
Recommended Dilution:	**Western blot:** 1/1000; 1 µg/ml was sufficient for detection of KCNK3 in 20 µg of rat brain lysate by colorimetric immunoblot analysis using HRP conjugated secondary antibody. **Immunocytochemistry**. **Immunohistochemistry:** Free floating sections, fixed in formaldehyde.
Reactivity:	Mouse, Rat
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Fusion protein amino acids 251-411 (cytoplasmic C-terminus) of rat KCNK3 / acid-sensitive potassium channel protein TASK or TASK1.
Specificity:	This antibody detects KCNK3; ~50 kDa. Does not cross-react with TASK3 / KCNK9.
Formulation:	PBS pH 7.4, 50% Glycerol, 0.09% Sodium azide State: Purified State: Liquid purified IgG fraction
Concentration:	lot specific
Purification:	Protein G chromatography
Conjugation:	Unconjugated
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	potassium two pore domain channel subfamily K member 3
Database Link:	Entrez Gene 29553 Rat O54912

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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.

Synonyms: KCNK3, TASK, TASK1, Potassium channel subfamily K member 3