

AB-NN273-1

TASK1 Potassium Channel Antibody



KINEXUS

Pan-specific mouse monoclonal antibody (S374-48) for monitoring the expression of rat TASK1 Potassium Channel

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Target Protein

Protein Name Long:	Potassium channel subfamily K member 3
Protein Alias:	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; TWIK related acid sensitive K+ channel; Two pore potassium channel KT3.1; Two pore K(+) channel KT3.1
UniProt ID:	O14649
Protein Molecular Mass:	43,518 Da (394 AA; O14649-1)

Immunogen

Antibody Immunogen Source:	Fusion protein with cytoplasmic C-terminus of rat acid-sensitive potassium channel protein TASK (Uniprot ID O54912) or TASK1
Antibody Immunogen Description:	Corresponds to amino acid residues A251-V411. Mouse: 96% identity (156/161 amino acids identical). Human: 76% identity (163/161 amino acids identical). <30% identity with TASK3.
Antibody Target Type:	Pan-specific

Production

Antibody Host Species:	Mouse
Antibody Type:	Monoclonal
Antibody Isotype:	IgG2b
Production Method:	Protein G purified
Amount:	25 µg
Antibody Concentration:	1 mg/ml
Lot Numbers:	15DE1
Storage Buffer:	Phosphate buffered saline pH 7.4, 50% glycerol, 0.1% sodium azide
Storage Conditions:	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.
Storage Stability:	>2 years

Applications

Product Use:	Western blotting Immunohistochemistry ICC/Immunofluorescence
Antibody Dilution Recommended:	WB (1:1000); optimal dilutions for assays should be determined by the user.
Antibody Species Reactivity:	Rat Mouse
Antibody Positive Control:	1 µg/ml of SMC-473 was sufficient for detection of TASK1 Potassium Channel in 20 µg of rat brain lysate by colorimetric immunoblot analysis using goat anti-mouse IgG:HRP as the secondary antibody.
Antibody Potency:	In mouse brain lysates, this antibody detects a ~50 kDa protein by Western blotting.
Antibody Specificity:	Very high
Antibody Cross Reactivity:	Does not cross-react with TASK3.

This product is for in vitro research use only and is not intended for use in humans or animals.

For more information on our products please visit <https://kinexus-ca.myshopify.com/> or contact us at 1-866-546-3987