Datasheet for ABIN6657685

anti-KCNMB2 antibody (C-Term, N-Term)

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1 Image

Overview

Quantity:	100 µg
Target:	KCNMB2
Binding Specificity:	C-Term, N-Term
Reactivity:	Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This KCNMB2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP)

Product Details

Immunogen:	Immunogen: BK channel BETA2 Antibody was produced in mice by repeated immunizations with a fusion protein N-terminus and C-terminus regions of mouse BKBeta2. Immunogen Type: Recombinant Protein
Clone:	S53-32
Isotype:	IgG1
Cross-Reactivity:	Human, Mouse (Murine), Rat (Rattus)
Purification:	Anti-BK channel BETA2 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with BK channel BETA2 from human, mouse, and rat based on 100% homology with the immunizing sequence. Detects endogenous and exogenous hsp22 in monomeric, dimeric and tetrameric forms in WB. Does not cross react with alpha crystallin. Cross-reactivity with BK channel BETA2 from other sources has not been determined.

Product Details

	Ion Channels research.

Target Details

Target:	KCNMB2
Alternative Name:	BK channel BETA2 (KCNMB2 Products)
Background:	Synonyms: KCNMB2, Calcium-activated potassium channel subunit beta-2, BK channel subunit beta-2, BKbeta2, Calcium-activated potassium channel, subfamily M subunit beta-2, Charybdotoxin receptor subunit beta-2, K(VCA)beta-2, Maxi K channel subunit beta-2, Slo-beta-2 Background: BK channels contribute to electrical impulses, proper signal transmission of information and regulation of neurotransmitter release. A gain of function mutation in the pore-forming alpha subunit of the BK channel was linked to human neurological diseases. Findings suggest that the distribution of the beta subunits in the brain can modulate the BK channels to contribute to the pathophysiology of epilepsy and dyskinesia. This has major implications on other physiological processes in tissues other than the brain. Gene Name: Kcnmb2
Gene ID:	72413
NCBI Accession:	NP_082507
UniProt:	Q9CZM9

Application Details

Application Notes:	Immunohistochemistry Dilution: User Optimized Application Note: Anti-BK channel Beta3 Antibody is suitable for use in WB, IP, and IHC. Specific conditions for reactivity should be optimized by the end user. Immunoprecipitation Dilution: User Optimized Western Blot Dilution: 1:2000
Restrictions:	For Research Use only

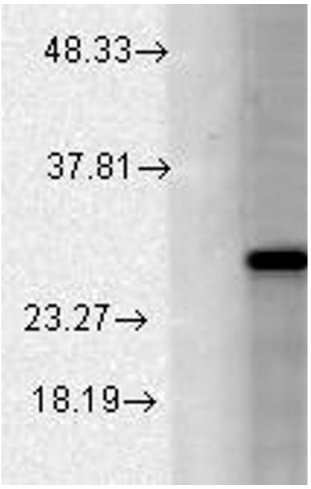
Handling

Format:	Liquid
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 50 % (v/v) Glycerol
Storage:	RT,4 °C,-20 °C

Handling

Storage Comment:	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.

Images



Western Blotting

Image 1. BK channel BETA2 Western Blot. Western Blot of Mouse anti-BK channel BETA2 antibody. Lane 1: COS-1 cells transiently transfected with KBeta2 lysate. Load: 10ug. Priamary antibody: BK channel BETA2 at 1:1000 overnight at 4°C. Secondary antibody: Goat anti-mouse IgG HRP at 1:40,000 for 45 min at RT. Blocked: 5% Blotto overnight at 4°C. Predicated/observed size: 27.1 kDa, 30 kDa for BK channel BETA2.