



[Go to Product page](#)

Datasheet for ABIN6657696
anti-KCNMB4 antibody (Extracellular Domain)

Overview

Quantity:	100 µg
Target:	KCNMB4
Binding Specificity:	Extracellular Domain
Reactivity:	Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This KCNMB4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Fluorescence Microscopy (FM), Immunoprecipitation (IP)

Product Details

Immunogen:	Immunogen: BK Beta 4 Antibody was produced in mice by repeated immunizations with a fusion protein (entire extracellular domain) of mouse BKBeta4. Immunogen Type: Recombinant Protein
Clone:	S18A-3
Isotype:	IgG2a
Cross-Reactivity:	Human, Mouse (Murine), Rat (Rattus)
Purification:	Anti-BK Beta4 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with BK Beta4 from Human, Mouse, and Rat based on 100% homology with the immunizing sequence. No cross-reactivity against BKBeta1, BKBeta2 or BKBeta3. Cross-reactivity with BK Beta4 from other sources has not been determined. Ion

Product Details

Channels research.

Target Details

Target: KCNMB4

Alternative Name: BK Beta 4 ([KCNMB4 Products](#))

Background: Synonyms: calcium-activated potassium channel subunit beta-4, BK channel subunit beta-4, BKbeta4, Calcium-activated potassium channel, subfamily M subunit beta-4, Charybdotoxin receptor subunit beta-4, K(VCA)beta-4, Maxi K channel subunit beta-4, Slo-beta-4

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: Kcnmb4

NCBI Accession: [NP_067427](#)

Application Details

Application Notes: Immunohistochemistry Dilution: 0.1-1.0 µg/mL

Application Note: Anti-BK Beta4 Antibody is suitable for use in WB, IP, IF, and IHC. Antibody is provided in PBS pH 7.4. Expect a band approximately ~24 kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.

Immunoprecipitation Dilution: User Optimized

Western Blot Dilution: 1 µg/mL

IF Microscopy Dilution: 1.0-10 µg/mL

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Buffer:
Stabilizer: 50 % (v/v) Glycerol
0.09 % (w/v) Sodium Azide

Handling

Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	RT,4 °C,-20 °C
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.