

Datasheet for ABIN6262754

anti-KCNMB1 antibody**3** Images[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	KCNMB1
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KCNMB1 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (IHC), Immunocytochemistry (ICC)

Product Details

Immunogen:	A synthesized peptide derived from human KCNMB1
Isotype:	IgG
Specificity:	KCNMB1 Antibody detects endogenous levels of total KCNMB1
Cross-Reactivity:	Human, Mouse (Murine), Rat (Rattus)
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).

Target Details

Target:	KCNMB1
Alternative Name:	KCNMB1 (KCNMB1 Products)

Target Details

Background:	<p>Description: Regulatory subunit of the calcium activated potassium KCNMA1 (maxiK) channel. Modulates the calcium sensitivity and gating kinetics of KCNMA1, thereby contributing to KCNMA1 channel diversity. Increases the apparent Ca²⁺/voltage sensitivity of the KCNMA1 channel. It also modifies KCNMA1 channel kinetics and alters its pharmacological properties. It slows down the activation and the deactivation kinetics of the channel. Acts as a negative regulator of smooth muscle contraction by enhancing the calcium sensitivity to KCNMA1. Its presence is also a requirement for internal binding of the KCNMA1 channel opener dehydrosoyasaponin I (DHS-1) triterpene glycoside and for external binding of the agonist hormone 17-beta-estradiol (E2). Increases the binding activity of charybdotoxin (CTX) toxin to KCNMA1 peptide blocker by increasing the CTX association rate and decreasing the dissociation rate.</p> <p>Gene: KCNMB1</p>
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Molecular Weight:	22 kDa
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Gene ID:	3779
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UniProt:	Q16558
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Application Details

Application Notes:	WB 1:1000-3000, IHC 1:50-1:200, IF/ICC 1:100-1:500
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
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Concentration:	1 mg/mL
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Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
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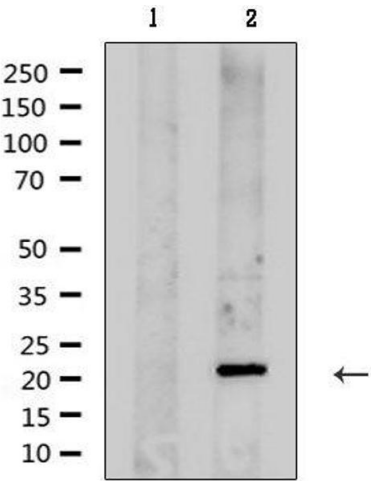
Preservative:	Sodium azide
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Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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Storage:	-20 °C
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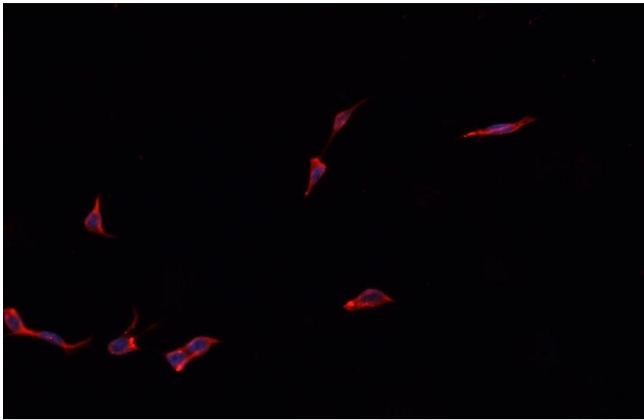
Storage Comment:	Store at -20 °C.Stable for 12 months from date of receipt
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Expiry Date:	12 months
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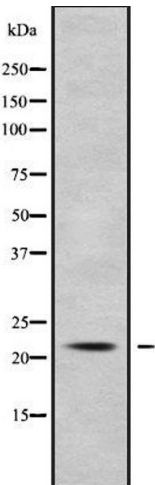
Western Blotting

Image 1. Western blot analysis of extracts from rat brain , using KCNMB1 Antibody. Lane 1 was treated with the antigen-specific peptide.



Immunofluorescence (fixed cells)

Image 2. ABIN6279215 staining HepG2? cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody(Cat.# S0006), diluted at 1/600, was used as secondary antibody



Western Blotting

Image 3. Western blot analysis of KCNMB1 using COS7 whole cell lysates