abcam

Product datasheet

Anti-Kv2.1/KCNB1 antibody [S39-25] ab99011

画像数 1

製品の概要

製品名	Anti-Kv2.1/KCNB1 antibody [S39-25]
製品の詳細	Mouse monoclonal [S39-25] to Kv2.1/KCNB1
由来種	Mouse
特異性	The size of the band observed in the WB analysis varies with cell background due to phosphorylation.
アプリケーション	**適用あり:** ICC/IF, IHC-P, IHC-Fr, WB
種交差性	**交差種:** Mouse, Rat, Human **交差が予測される動物種:** Rabbit, Pig
免疫原	Synthetic peptide: LPELQSLDEFGQSTDNPQL , corresponding to extracellular S1-S2 loop residues 211-229 of Rat KCNB1 (NP_037318). Run BLAST with Run BLAST with
ポジティブ・コントロール	Rat brain lysate

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
バッファー	Preservative: 0.09% Sodium Azide Constituents: 50% Glycerol, PBS, pH 7.4
精製度	Protein G purified
ポリ/モノ	モノクローナル
クローン名	S39-25
アイソタイプ	IgG2a

アプリケーション

The Abpromise guarantee Abpromise保証は、次のテスト済みアプリケーションにおけるab99011の使用に適用されます

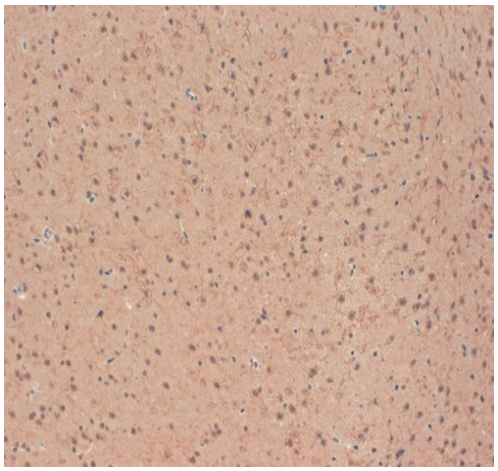
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
ICC/IF		Use a concentration of 0.1 - 1 µg/ml. (perox) or 1 - 10 µg/ml (IF).
IHC-P		Use a concentration of 0.1 - 1 µg/ml. (perox) or 1 - 10 µg/ml (IF).
IHC-Fr		Use a concentration of 0.1 - 1 µg/ml. (perox) or 1 - 10 µg/ml (IF).
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 105-125 kDa.

ターゲット情報

機能	Mediates the voltage-dependent potassium ion permeability of excitable membranes. Channels open or close in response to the voltage difference across the membrane, letting potassium ions pass in accordance with their electrochemical gradient.
配列類似性	Belongs to the potassium channel family. B (Shab) (TC 1.A.1.2) subfamily. Kv2.1/KCNB1 sub-subfamily.
ドメイン	The segment S4 is probably the voltage-sensor and is characterized by a series of positively charged amino acids at every third position. The tail may be important in modulation of channel activity and/or targeting of the channel to specific subcellular compartments.
翻訳後修飾	Highly phosphorylated on serine residues in the C-terminal. Differential phosphorylation on a subset of serines allows graded activity-dependent regulation of channel gating. Phosphorylation on Ser-457, Ser-541, Ser-567, Ser-607, Ser-656 and Ser-720 as well as the N-terminal Ser-15 are all regulated by calcineurin-mediated dephosphorylation. Particularly, Ser-607 and Tyr-128 are significant sites of voltage-gated regulation through phosphorylation/ dephosphorylation activities. Tyr-128 can be dephosphorylated by PTPalpha and cyt-PTPepsilon. Phosphorylation levels on Ser-607 are supersensitive to neuronal activity. Phosphorylation on Ser-567 is reduced during postnatal development with low levels at P2 and P5. Levels then increase to reach adult levels by P14. Phosphorylation levels on Ser-564 and Ser-607 are greatly reduced during seizures, by 40% and 85% respectively.
細胞内局在	Membrane.

画像



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Kv2.1 antibody [S39-25] (ab99011)

Immunohistochemical detection of Kv2.1 in Mouse brain tissues using a dilution of ab99011.

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