abcam

Product datasheet

Anti-Kv4.2/KCND2 antibody [S57-1] ab99040

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概述

产品名称	Anti-Kv4.2/KCND2抗体[S57-1]
描述	小鼠单克隆抗体[S57-1] to Kv4.2/KCND2
宿主	Mouse
特异性	No cross-reactivity is observed against Kv4.3
经测试应用	**适用于:** ICC/IF, WB, IP, IHC-P, IHC-Fr, Flow Cyt
种属反应性	**与反应:** Mouse, Rat **预测可用于:** Rabbit, Human, Pig, Orangutan
免疫原	Synthetic peptide: CGSSPGHIKELPSGERY , corresponding to extracellular S1-S2 loop amino acids 209 - 225 of Rat Kv4.2 (accession number Q63881). Run BLAST with Run BLAST with
阳性对照	Rat brain lysate

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	Preservative: 0.09% Sodium Azide Constituents: 50% Glycerol, PBS, pH 7.4
纯度	Protein G purified
克隆	单克隆
克隆编号	S57-1
同种型	IgG1

应用

The Abpromise guarantee Abpromise™承诺保证使用ab99040于以下的经测试应用

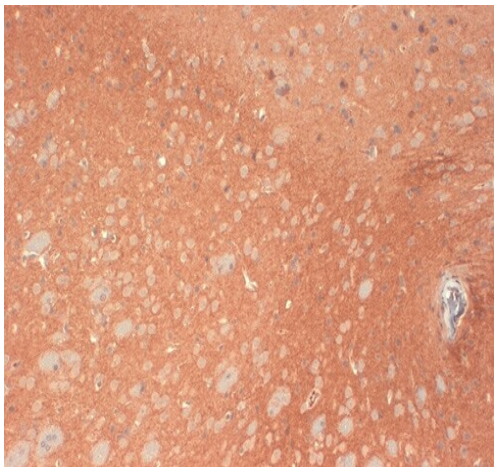
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ICC/IF		Use a concentration of 0.1 - 1 µg/ml. (perox), 1 - 10µg/mL (IF).
WB		Use a concentration of 1 µg/ml. Predicted molecular weight: 71 kDa.
IP		Use at an assay dependent concentration.
IHC-P		Use a concentration of 0.1 - 1 µg/ml. (perox), 1 - 10µg/mL (IF).
IHC-Fr		Use a concentration of 0.1 - 1 µg/ml. (perox), 1 - 10µg/mL (IF).
Flow Cyt		Use 1-2µg for 10^6 cells. **ab170190** - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

靶标

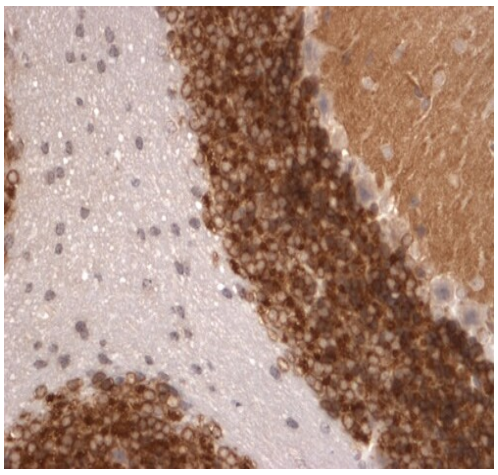
功能	Pore-forming (alpha) subunit of voltage-gated rapidly inactivating A-type potassium channels. May contribute to I(To) current in heart and I(Sa) current in neurons. Channel properties are modulated by interactions with other alpha subunits and with regulatory subunits.
组织特异性	Highly expressed throughout the brain. Expression is very low or absent in other tissues.
序列相似性	Belongs to the potassium channel family. D (Shal) (TC 1.A.1.2) subfamily. Kv4.2/KCND2 sub-subfamily.
结构域	The segment S4 is probably the voltage-sensor and is characterized by a series of positively charged amino acids at every third position.
翻译后修饰	Phosphorylated on serine and threonine residues.
细胞定位	Cell membrane. Cell projection > dendrite. Detected in dendrites in cultured hippocampal neurons. Association with KCNIP2 probably enhances cell surface expression.

图片



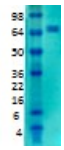
Immunohistochemistry - Anti-Kv4.2 antibody [S57-1] (ab99040)

ab99040 staining Kv4.2 in Mouse brain tissue sections by Immunohistochemistry.



Immunohistochemistry - Anti-Kv4.2 antibody [S57-1] (ab99040)

ab99040 staining Kv4.2 in Mouse cerebellum tissue sections by Immunohistochemistry.



Western blot - Anti-Kv4.2 antibody [S57-1] (ab99040)

Anti-Kv4.2/KCND2 antibody [S57-1] (ab99040) at 1/1000 dilution + Rat brain membrane tissue lysate

Predicted band size: 71 kDa

Flow Cytometry - Anti-Kv4.2 antibody [S57-1] (ab99040)

Overlay histogram showing SH-SY5Y cells stained with ab99040 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab99040, 1µg/1x10^6 cells) for 30 min at 22ºC. The secondary antibody used was DyLight® 488 goat anti-mouse IgG

(H+L) (**ab96879**) at 1/500 dilution for 30 min at 22ºC. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (**ab91353**, 2µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in SH-SY5Y cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

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