

Product datasheet

Anti-Kv2.1 (phospho S805) antibody ab111552

1 图像

概述

产品名称	Anti-Kv2.1 (phospho S805)抗体
描述	兔多克隆抗体to Kv2.1 (phospho S805)
特异性	ab111552 detects endogenous levels of Kv2.1 only when phosphorylated at serine 805 (Human: Ser805; Mouse: Ser804; Rat: Ser804).
经测试应用	适用于: WB
种属反应性	与反应: Human 预测可用于: Mouse, Rat ▲
免疫原	Synthetic phosphopeptide derived from Human Kv2.1 around the phosphorylation site of Serine 805 (P-T-S ^P -P-K).
阳性对照	Extracts from K562 cells treated with TNF (200ng/ml 30mins)

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
存储溶液	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 50% Glycerol, 49% PBS, 0.88% Sodium chloride
纯度	Immunogen affinity purified
纯化说明	ab111552 was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
克隆	多克隆
同种型	IgG

应用

Our [Abpromise guarantee](#) covers the use of **ab111552** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
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靶标**功能**

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.

序列相似性

Belongs to the potassium channel family, B (Shab) (TC 1.A.1.2) subfamily, Kv2.1/KCNB1 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.

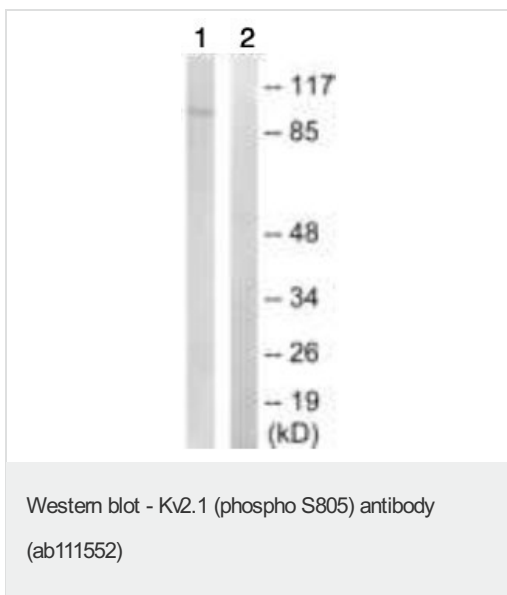
The tail may be important in modulation of channel activity and/or targeting of the channel to specific subcellular compartments.

翻译后修饰

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.

细胞定位

Membrane.

Anti-Kv2.1 (phospho S805) antibody 图像

All lanes : Anti-Kv2.1 (phospho S805) antibody (ab111552) at 1/500 dilution

Lane 1 : Extracts from K562 cells treated with TNF (200ng/ml 30mins)

Lane 2 : Extracts from K562 cells treated with TNF (200ng/ml 30mins) with immunising peptide at 10 µg

Lysates/proteins at 30 µg per lane.

Predicted band size : 96 kDa

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