


Product datasheet

Anti-Kv2.1 (phospho S805) antibody ab111552

1 图像

概述

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

性能

<b>形式</b>	Liquid
<b>存放说明</b>	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
<b>存储溶液</b>	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 50% Glycerol, 49% PBS, 0.88% Sodium chloride
<b>纯度</b>	Immunogen affinity purified
<b>纯化说明</b>	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.
<b>克隆</b>	多克隆
<b>同种型</b>	IgG

应用

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

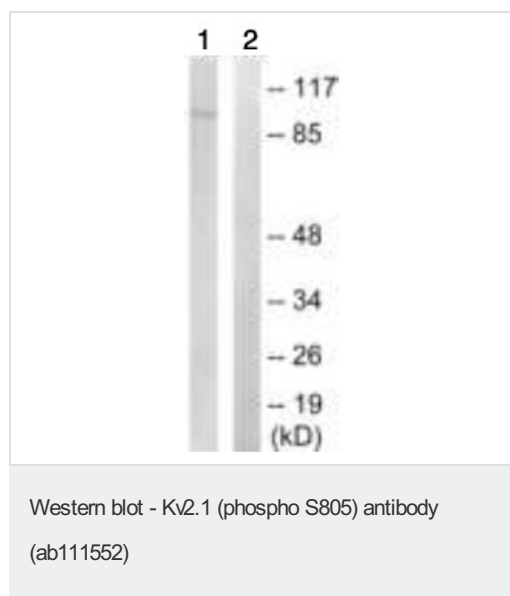
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
WB		1/500 - 1/1000. Predicted molecular weight: 96 kDa.

## 靶标

<b>功能</b>	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.
<b>序列相似性</b>	Belongs to the potassium channel family. B (Shab) (TC 1.A.1.2) subfamily. Kv2.1/KCNB1 sub-subfamily.
<b>结构域</b>	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.
<b>翻译后修饰</b>	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.
<b>细胞定位</b>	Membrane.

## 图片



**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

---

### **Our Abpromise to you: Quality guaranteed and expert technical support**

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <http://www.abcam.cn/abpromise> or contact our technical team.

### **Terms and conditions**

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors