


## Product datasheet

# Anti-Kv2.1 (phospho S805) antibody ab111552

### 画像数 1

#### 製品の概要

製品名	Anti-Kv2.1 (phospho S805) antibody
製品の詳細	Rabbit polyclonal to Kv2.1 (phospho S805)
由来種	Rabbit
特異性	ab111552 detects endogenous levels of Kv2.1 only when phosphorylated at serine 805 (Human: Ser805; Mouse: Ser804; Rat: Ser804).
アプリケーション	<b>適用あり:</b> WB
種交差性	<b>交差種:</b> Human <b>交差が予測される動物種:</b> Mouse, Rat 
免疫原	Synthetic phosphopeptide derived from Human Kv2.1 around the phosphorylation site of Serine 805 (P-T-S <sup>P</sup> -P-K).
ポジティブ・コントロール	Extracts from K562 cells treated with TNF (200ng/ml 30mins)

#### 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
バッファー	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 50% Glycerol, 49% PBS, 0.88% Sodium chloride
精製度	Immunogen affinity purified
特記事項(精製)	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.
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

#### アプリケーション

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

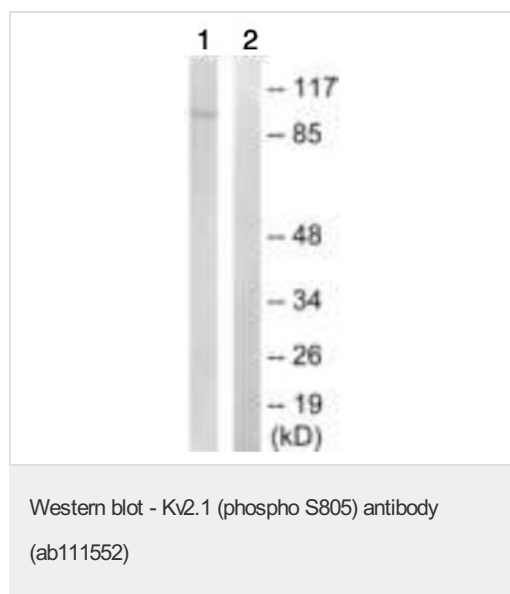
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
WB		1/500 - 1/1000. Predicted molecular weight: 96 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



**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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