




Anti-KCNQ4 antibody [N43/6] ab84820

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製品の概要

製品名	Anti-KCNQ4 antibody [N43/6]
製品の詳細	Mouse monoclonal [N43/6] to KCNQ4
由来種	Mouse
アプリケーション	適用あり: IHC-Fr, IHC-P, WB
種交差性	交差種: Mouse, Rat, Human 交差が予測される動物種: Chimpanzee 
免疫原	Fusion protein corresponding to Human KCNQ4 aa 1-100. Database link: P56696  Run BLAST with  Run BLAST with
ポジティブ・コントロール	Lysate from transfected COS-1 cells transiently expressing KCNQ4.
特記事項	<p>The clone number has been updated from S43-6 to N43/6, both clone numbers name the same antibody clone.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

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	Preservative: 0.09% Sodium azide Constituents: 50% Glycerol, PBS
精製度	Protein G purified
ポリ/モノ	モノクローナル
クローン名	N43/6
アイソタイプ	IgG1

アプリケーション

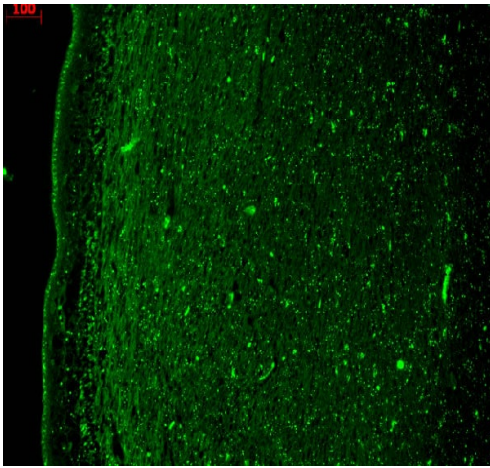
The Abpromise guarantee Abpromise保証は、次のテスト済みアプリケーションにおけるab84820の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
IHC-Fr		1/1000.
IHC-P		1/1000. Fixation: Bouin's Fixative
WB		1/1000. Predicted molecular weight: 77 kDa.

ターゲット情報

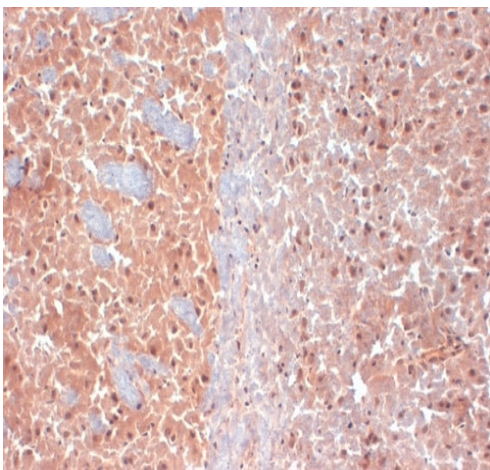
機能	Probably important in the regulation of neuronal excitability. May underlie a potassium current involved in regulating the excitability of sensory cells of the cochlea. KCNQ4 channels are blocked by linopirdin, XE991 and bepridil, whereas clofilium is without significant effect. Muscarinic agonist oxotremorine-M strongly suppress KCNQ4 current in CHO cells in which cloned KCNQ4 channels were coexpressed with M1 muscarinnic receptors.
組織特異性	Expressed in the outer, but not the inner, sensory hair cells of the cochlea. Slightly expressed in heart, brain and skeletal muscle.
関連疾患	Defects in KCNQ4 are the cause of deafness autosomal dominant type 2A (DFNA2A) [MIM:600101]. DFNA2A is a form of sensorineural hearing loss. Sensorineural deafness results from damage to the neural receptors of the inner ear, the nerve pathways to the brain, or the area of the brain that receives sound information.
配列類似性	Belongs to the potassium channel family. KQT (TC 1.A.1.15) subfamily. Kv7.4/KCNQ4 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 A-domain tail carries the major determinants of channel assembly specificity. Its coiled-coil region is Four-stranded.
細胞内局在	Basal cell membrane. Situated at the basal membrane of cochlear outer hair cells.

画像



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-KCNQ4 antibody [N43/6] (ab84820)

Immunohistochemical analysis of paraffin-embedded human hippocampus tissue labelling KCNQ4 with ab84820 at 1/1000 dilution, for 1 hour at RT followed by secondary antibody Goat Anti-Mouse (FITC) (Green) at 1/50 dilution, for 1 hour at RT.



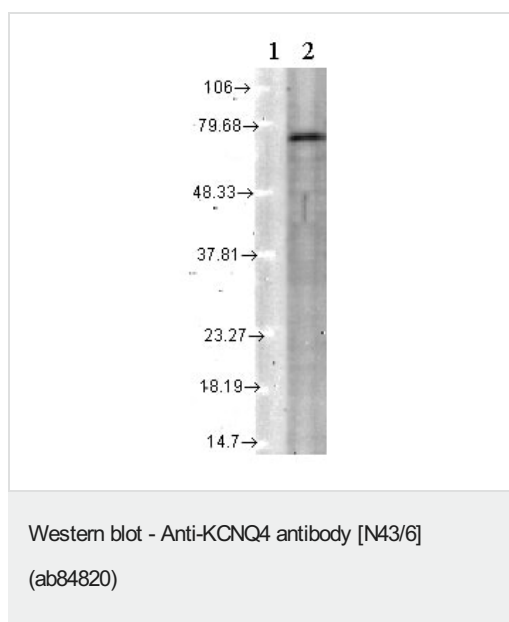
Immunohistochemistry (Frozen sections) - Anti-KCNQ4 antibody [N43/6] (ab84820)

Immunohistochemical analysis of Mouse brain tissue sections labeling KCNQ4 with ab84820 at 1/1000 dilution for 1 hour at room temperature.

Secondary Antibody: HRP/DAB Detection

System: Biotinylated Goat Anti-Mouse, Streptavidin Peroxidase, DAB Chromogen (brown) for 30 minutes at room temperature.

Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain at 250-500 µl for 5 minutes at room temperature



All lanes : Anti-KCNQ4 antibody [N43/6] (ab84820) at 1/1000 dilution

Lane 1 : Molecular weight marker

Lane 2 : Mixed cell lysates prepared from rat tissues Brain, Heart, Kidney, Liver, Lung, Pancreas, Skeletal Muscle, Spleen, Testes, Thymus, and H9C2 cells at 15 µg

Secondary

Lane 2 : Sheep Anti-Mouse IgG: HRP

Predicted band size: 77 kDa

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