


Anti-KCNQ4 antibody [N43/6] ab84820

★★★★★ [1 Abreviews](#) [4 References](#) [3 图像](#)

概述

产品名称	Anti-KCNQ4抗体[N43/6]
描述	小鼠单克隆抗体[N43/6] to KCNQ4
宿主	Mouse
经测试应用	适用于: IHC-Fr, IHC-P, WB
种属反应性	与反应: Mouse, Rat, Human 预测可用于: Chimpanzee 
免疫原	Fusion protein corresponding to Human KCNQ4 aa 1-100. Database link: P56696
阳性对照	Lysate from transfected COS-1 cells transiently expressing KCNQ4.
常规说明	<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>

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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	Preservative: 0.09% Sodium azide Constituents: 50% Glycerol, PBS
纯度	Protein G purified
克隆	单克隆
克隆编号	N43/6
同种型	IgG1

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab84820于以下的经测试应用

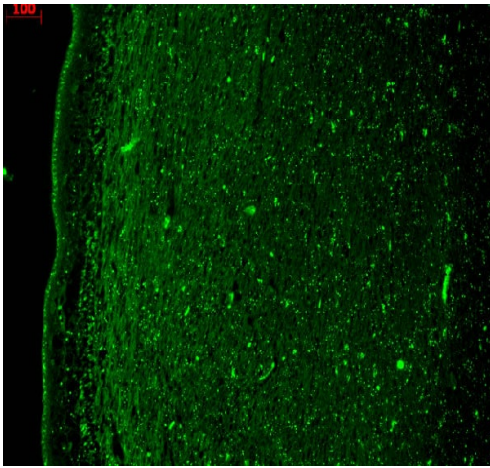
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-Fr		1/1000.
IHC-P		1/1000. Fixation: Bouin's Fixative
WB		1/1000. Predicted molecular weight: 77 kDa.

靶标

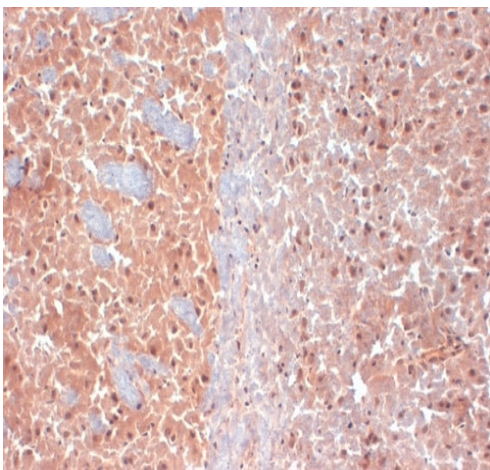
功能	Probably important in the regulation of neuronal excitability. May underlie a potassium current involved in regulating the excitability of sensory cells of the cochlea. KCNQ4 channels are blocked by linopirdin, XE991 and bepridil, whereas clofilium is without significant effect. Muscarinic agonist oxotremorine-M strongly suppress KCNQ4 current in CHO cells in which cloned KCNQ4 channels were coexpressed with M1 muscarinnic receptors.
组织特异性	Expressed in the outer, but not the inner, sensory hair cells of the cochlea. Slightly expressed in heart, brain and skeletal muscle.
疾病相关	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.
序列相似性	Belongs to the potassium channel family. KQT (TC 1.A.1.15) subfamily. Kv7.4/KCNQ4 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 A-domain tail carries the major determinants of channel assembly specificity. Its coiled-coil region is Four-stranded.
细胞定位	Basal cell membrane. Situated at the basal membrane of cochlear outer hair cells.

图片



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.



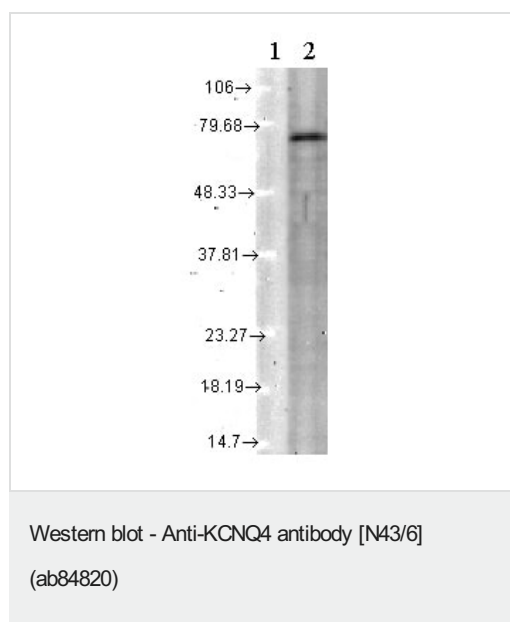
Immunohistochemistry (Frozen sections) - Anti-KCNQ4 antibody [N43/6] (ab84820)

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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