

## Product datasheet

# Anti-KCNQ4 antibody [S43-6] ab84820

★★★★★ 1 Abreviews 2 References 4 图像

### 概述

产品名称	Anti-KCNQ4抗体[S43-6]
描述	小鼠单克隆抗体[S43-6] to KCNQ4
经测试应用	适用于: WB, ICC/IF, IP
种属反应性	与反应: Mouse, Rat, Human 预测可用于: Chimpanzee
免疫原	Fusion protein: AEAPRRRLGL GPPPGDAPRA ELVALTAVQS EQGEAGGGGS PRRLGLLGSP LPPGAPLP GP GSGSGSACGQ RSSAAH, corresponding to amino acids 2-77 of Human KCNQ4 (accession number P56696). <a href="#">Run BLAST with ExPASy</a> <a href="#">Run BLAST with NCBI</a>
阳性对照	Lysate from transfected COS-1 cells transiently expressing KCNQ4.

### 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, pH 7.4
纯度	Protein G purified
克隆	单克隆
克隆编号	S43-6
同种型	IgG1

### 应用

Our [Abpromise guarantee](#) covers the use of **ab84820** in the following tested applications.

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

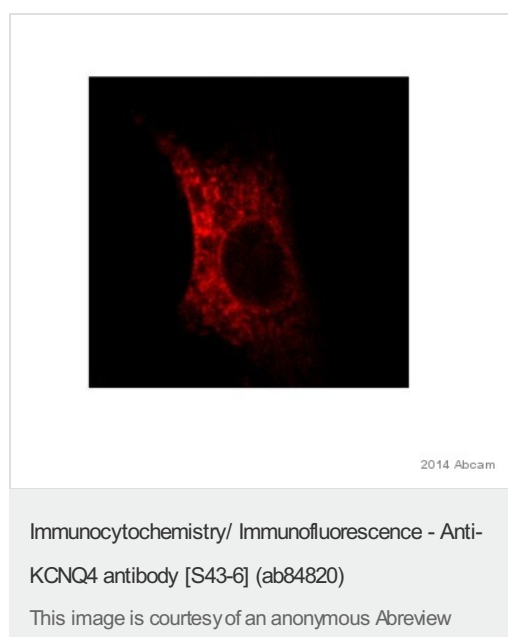
应用	Ab评论	说明
WB		Use a concentration of 1 - 10 mg/ml. Predicted molecular weight: 77 kDa.

应用	Ab评论	说明
ICC/IF	★★★★★	Use a concentration of 1 - 10 µg/ml.
IP		Use at an assay dependent dilution.

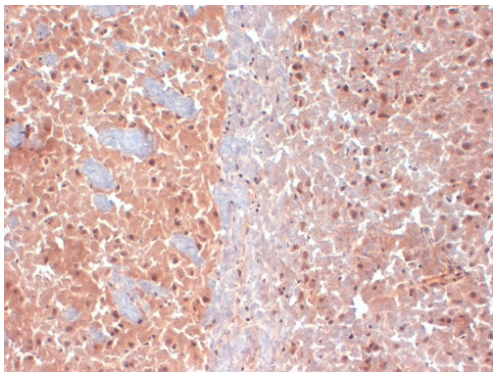
## 靶标

<b>功能</b>	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 muscarinic receptors.
<b>组织特异性</b>	Expressed in the outer, but not the inner, sensory hair cells of the cochlea. Slightly expressed in heart, brain and skeletal muscle.
<b>疾病相关</b>	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.
<b>序列相似性</b>	Belongs to the potassium channel family. KQT (TC 1.A.1.15) subfamily. Kv7.4/KCNQ4 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 A-domain tail carries the major determinants of channel assembly specificity. Its coiled-coil region is Four-stranded.
<b>细胞定位</b>	Basal cell membrane. Situated at the basal membrane of cochlear outer hair cells.

## 图片

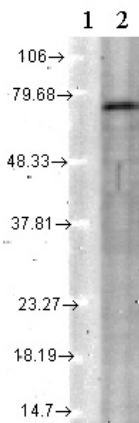


ab84820 staining KCNQ4 in KCNQ4 transfected NIH3T3 cell line by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with 4% PFA, permeabilized with 0.5% Triton X-100 in PBS and blocked with 4% Milk in PBS for 60 minutes at 21°C. Samples were incubated with primary antibody (1/1000 in PBS) for 1 hour at 21°C. An Alexa Fluor®594-conjugated Goat anti-mouse IgG polyclonal (1/500) was used as the secondary antibody.



ab84820 staining KCNQ4 in Mouse brain tissue sections by Immunohistochemistry (IHC-Fr - frozen sections).

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-KCNQ4 antibody [S43-6] (ab84820)



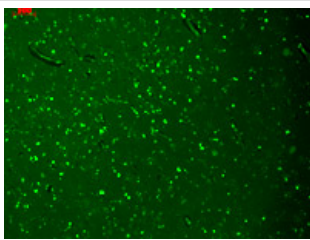
**All lanes :** Anti-KCNQ4 antibody [S43-6] (ab84820)

**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 10 µg

**Predicted band size :** 77 kDa

Western blot - KCNQ4 antibody [S43-6] (ab84820)



ab84820 staining KCNQ4 in human hippocampal tissue by IHC-P (Bouin's fixed paraffin embedded).

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - KCNQ4 antibody [S43-6] (ab84820)

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