abcam

Product datasheet

Anti-SLC4A4 antibody ab30322

1 References

概述

产品名称	Anti-SLC4A4抗体
描述	**兔多克隆抗体**to SLC4A4
宿主	Rabbit
经测试应用	**适用于:** WB, IHC-Fr
种属反应性	**与反应:** Rat
免疫原	Synthetic peptide derived from the C-terminus of rat renal splice variant of NBCe1 protein (NBCe1-A)

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	Preservative: 0.01% Thimerosal (merthiolate) Constituents: 50% Glycerol
纯度	Whole antiserum
克隆	**多克隆**
同种型	IgG

应用

Our Abpromise guarantee covers the use of **ab30322** 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		
IHC-Fr		

应用说明	IHC-Fr: Use at an assay dependent dilution. (see refeences below: Schmitt BM et al. Immunolocalization of the electrogenic Na+-HCO-3 cotransporter in mammalian and amphibian kidney. Jensen LJ et al. Localization of sodium bicarbonate cotransporter (NBC) protein and

messenger ribonucleic acid in rat epididymis. Marino CR et al. Expression and distribution of the Na(+)-HCO(-)(3) cotransporter in human pancreas. Romero MF et al. Cloning and functional expression of rNBC, an electrogenic Na(+)-HCO3- cotransporter from rat kidney.

WB: 1/500 - 1/2500. Predicted molecular weight: 120 kDa.

Not yet tested in other applications.
Optimal dilutions/concentrations should be determined by the end user.

靶标

功能	Electrogenic sodium/bicarbonate cotransporter with a Na(+):HCO3(-) stoichiometry varying from 1:2 to 1:3. May regulate bicarbonate influx/efflux at the basolateral membrane of cells and regulate intracellular pH.
组织特异性	Isoform 1 is expressed in pancreas and to a lower extent in heart, skeletal muscle, liver, parotid salivary glands, prostate, colon, stomach, thyroid, brain and spinal chord. Corneal endothelium cells express only isoform 1 (at protein level). Isoform 2 is specifically expressed in kidney at the level of proximal tubules.
疾病相关	Defects in SLC4A4 are the cause of proximal renal tubular acidosis with ocular abnormalities (pRTA-OA) [MIM:604278]; also known as renal tubular acidosis II. Caused by an impairment of bicarbonate absorption in the proximal tubule, proximal renal tubular acidosis (pRTA) is characterized by a decreased renal HCO3(-) threshold. pRTA-OA is an extremely rare autosomal recessive syndrome characterized by short stature, profound pRTA, mental retardation, bilateral glaucoma, cataracts and bandkeratopathy. Note=Loss of interaction with and stimulation by CA4 is the cause of retinitis pigmentosa type 17 (RP17).
序列相似性	Belongs to the anion exchanger (TC 2.A.31) family.
翻译后修饰	Phosphorylation of Ser-1026 by PKA increases the binding of CA2 and changes the Na(+):HCO3(-) stoichiometry of the transporter from 3:1 to 2:1. Phosphorylation of Thr-49 regulates isoform 1 conductance. N-glycosylation is not necessary for the transporter basic functions.
细胞定位	Basolateral cell membrane.

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