

## 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
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WB

IHC-Fr

应用说明	IHC-Fr: Use at an assay dependent dilution. (see references below: Schmitt BM et al. Immunolocalization of the electrogenic Na <sup>+</sup> -HCO <sub>3</sub> <sup>-</sup> cotransporter in mammalian and amphibian kidney. Jensen LJ et al. Localization of sodium bicarbonate cotransporter (NBC) protein and
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messenger ribonucleic acid in rat epididymis. Marino CR et al. Expression and distribution of the Na(+)-HCO<sub>3</sub><sup>-</sup> cotransporter in human pancreas. Romero MF et al. Cloning and functional expression of rNBC, an electrogenic Na(+)-HCO<sub>3</sub><sup>-</sup> 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(+):HCO <sub>3</sub> <sup>-</sup> 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 HCO <sub>3</sub> <sup>-</sup> 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(+):HCO <sub>3</sub> <sup>-</sup> 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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