# abcam

## Product datasheet

# Alexa Fluor® 647 Anti-Carbonic anhydrase 2/CA2 antibody [EPR5195] ab225128



重组 RabMAb

#### 2 图像

#### 概述

产品名称 Alexa Fluor® 647荧光Anti-Carbonic anhydrase 2/CA2抗体[EPR5195]

描述 Alexa Fluor® 647荧光兔单克隆抗体[EPR5195] to Carbonic anhydrase 2/CA2

宿主 Rabbit

偶联物 Alexa Fluor® 647. Ex: 652nm. Em: 668nm

经测试应用 适用干: IHC-P 种属反应性 与反应: Human

预测可用于: Mouse, Rat 📤

免疫原 Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

阳性对照 IHC-P: normal human stomach tissue sections

This product is a recombinant monoclonal antibody, which offers several advantages including: 常规说明

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information see here.

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

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性能

形式 Liquid

存放说明 Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long

term. Avoid freeze / thaw cycle. Stable for 12 months at -20°C. Store In the Dark.

存储溶液 pH: 7.40

Preservative: 0.02% Sodium azide

Constituents: PBS, 30% Glycerol (glycerin, glycerine), 1% BSA

纯度 Protein A purified

克隆 单克隆 克隆编号 **EPR5195** 

应用

Abpromise™承诺保证使用ab225128于以下的经测试应用 The Abpromise guarantee

"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 <b>用</b>	Ab评论	说明
IHC-P		1/5000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

靶标

功能 Essential for bone resorption and osteoclast differentiation (By similarity). Reversible hydration of

carbon dioxide. Can hydrates cyanamide to urea. Involved in the regulation of fluid secretion into

the anterior chamber of the eye.

疾病相关 Defects in CA2 are the cause of osteopetrosis autosomal recessive type 3 (OPTB3)

Belongs to the alpha-carbonic anhydrase family.

[MIM:259730]; also known as osteopetrosis with renal tubular acidosis, carbonic anhydrase II deficiency syndrome, Guibaud-Vainsel syndrome or marble brain disease. Osteopetrosis is a rare genetic disease characterized by abnormally dense bone, due to defective resorption of immature bone. The disorder occurs in two forms: a severe autosomal recessive form occurring in utero, infancy, or childhood, and a benign autosomal dominant form occurring in adolescence or adulthood. Autosomal recessive osteopetrosis is usually associated with normal or elevated amount of non-functional osteoclasts. OPTB3 is associated with renal tubular acidosis, cerebral

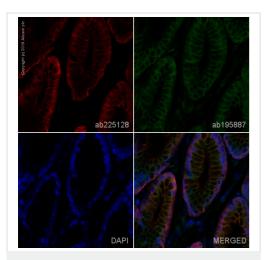
calcification (marble brain disease) and in some cases with mental retardation.

细胞定位

Cytoplasm.

图片

序列相似性



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Alexa Fluor® 647 Anti-Carbonic anhydrase 2/CA2 antibody [EPR5195] (ab225128)

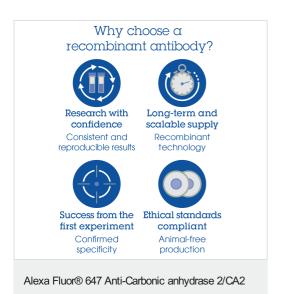
IHC image of Carbonic anhydrase 2/CA2 staining in a section of formalin-fixed paraffin-embedded normal human stomach\*.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6) in a Biocare Medical NxGen pressure cooker using retrieval settings of 110°C for 20 minutes. Non-specific protein-protein interactions were then blocked in TBS containing 0.025% (v/v) Triton X-100, 0.3M (w/v) glycine and 1% (w/v) BSA for 1h at room temperature. The section was then incubated overnight at +4°C in TBS containing 0.025% (v/v) Triton X-100 and 1% (w/v) BSA with ab225128 at 1/5000 dilution (shown in red) and counterstained using <a href="mailto:ab195887">ab195887</a>, Mouse monoclonal to alpha Tubulin (Alexa Fluor<sup>®</sup> 488), at 1/250 dilution (shown in green). Nuclear DNA was labelled with DAPI (shown in blue). The section was then mounted using Fluoromount<sup>®</sup>.

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

For other IHC staining systems (automated and non-automated), customers should optimize variable parameters such as antigen retrieval conditions, antibody concentrations and incubation times.

\*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre.



antibody [EPR5195] (ab225128)

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