


### Anti-CACNA1C antibody ab140760

#### 1 图像

#### 概述

产品名称	Anti-CACNA1C抗体
描述	兔多克隆抗体to CACNA1C
宿主	Rabbit
特异性	BLAST analysis of the peptide immunogen showed no homology with other Human proteins.
经测试应用	适用于: IHC-P
种属反应性	与反应: Human 预测可用于: Monkey, Gorilla, Common marmoset 
免疫原	Synthetic peptide corresponding to Human CACNA1C (internal sequence). Synthetic 16 amino acid peptide from internal region of human CACNA1C Database link: <a href="#">Q13936</a>
阳性对照	Human small intestine tissue.
常规说明	<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&amp;As</p>

#### 性能

形式	Liquid
存放说明	Shipped at 4°C.
存储溶液	pH: 7.4 Preservative: 0.1% Sodium azide Constituent: 99% PBS
纯度	Immunogen affinity purified
克隆	多克隆
同种型	IgG

## 应用

### The Abpromise guarantee

**Abpromise™** 承诺保证使用 ab140760 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-P		Use a concentration of 2.5 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

## 靶标

### 功能

Voltage-sensitive calcium channels (VSCC) mediate the entry of calcium ions into excitable cells and are also involved in a variety of calcium-dependent processes, including muscle contraction, hormone or neurotransmitter release, gene expression, cell motility, cell division and cell death. The isoform alpha-1C gives rise to L-type calcium currents. Long-lasting (L-type) calcium channels belong to the 'high-voltage activated' (HVA) group. They are blocked by dihydropyridines (DHP), phenylalkylamines, benzothiazepines, and by omega-agatoxin-IIIa (omega-Aga-IIIa). They are however insensitive to omega-conotoxin-GVIA (omega-CTx-GVIA) and omega-agatoxin-IVA (omega-Aga-IVA). Calcium channels containing the alpha-1C subunit play an important role in excitation-contraction coupling in the heart. The various isoforms display marked differences in the sensitivity to DHP compounds. Binding of calmodulin or CABP1 at the same regulatory sites results in an opposite effects on the channel function.

### 组织特异性

Expressed in brain, heart, jejunum, ovary, pancreatic beta-cells and vascular smooth muscle. Overall expression is reduced in atherosclerotic vascular smooth muscle.

### 疾病相关

Timothy syndrome  
Brugada syndrome 3

### 序列相似性

Belongs to the calcium channel alpha-1 subunit (TC 1.A.1.11) family. CACNA1C subfamily.

### 结构域

Each of the four internal repeats contains five hydrophobic transmembrane segments (S1, S2, S3, S5, S6) and one positively charged transmembrane segment (S4). S4 segments probably represent the voltage-sensor and are characterized by a series of positively charged amino acids at every third position.

Binding of intracellular calcium through the EF-hand motif inhibits the opening of the channel.

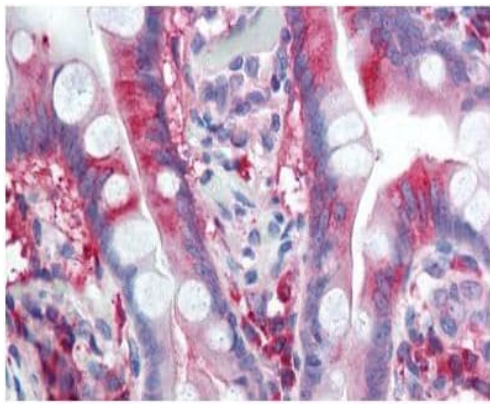
### 翻译后修饰

Phosphorylation by PKA activates the channel.

### 细胞定位

Membrane. Cell membrane. The interaction between RRAD and CACNB2 regulates its trafficking to the cell membrane.

## 图片



Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human small intestine tissue labelling CACNA1C with ab140760 at 2.5 µg/ml.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CACNA1C antibody (ab140760)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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