

### Anti-CASK antibody ab3383

**2 References**   **2 图像**

#### 概述

|       |  |
|-------|--|
| 产品名称  | Anti-CASK抗体  |
| 描述    | 兔多克隆抗体to CASK  |
| 宿主    | Rabbit   |
| 特异性   | By Western blot, this antibody detects a 112 kDa protein representing CASK from AtT20 cell lysate. Immunohistochemical staining of CASK in mouse brain with this antibody results in staining of the choroid plexus. |
| 经测试应用 | 适用于: ICC, WB   |
| 种属反应性 | 与反应: Mouse, Human  |
| 免疫原   | Synthetic peptide corresponding to Human CASK aa 578-592.<br>Sequence:<br>CERDSPSTSRQSPAN<br><br>(Peptide available as <a href="#">ab4961</a> )  |

 [Run BLAST with](#)

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#### 常规说明

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.

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&As

#### 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 or -80°C. Avoid freeze / thaw cycle. |
| 存储溶液 | Constituents: 0.1% BSA, 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ab3383于以下的经测试应用

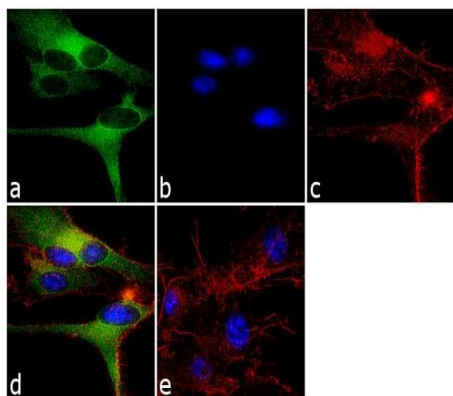
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

| 应用  | Ab评论 | 说明   |
|-----|------|--|
| ICC |      | Use a concentration of 2 µg/ml.                                      |
| WB  |      | Use a concentration of 1 µg/ml. Predicted molecular weight: 105 kDa. |

## 靶标

|       |  |
|-------|--|
| 功能    | Multidomain scaffolding protein with a role in synaptic transmembrane protein anchoring and ion channel trafficking. Contributes to neural development and regulation of gene expression via interaction with the transcription factor TRB1. Binds to cell-surface proteins, including amyloid precursor protein, neuroligins and syndecans. May mediate a link between the extracellular matrix and the actin cytoskeleton via its interaction with syndecan and with the actin/spectrin-binding protein 4.1.   |
| 组织特异性 | Ubiquitous. Expression is significantly greater in brain relative to kidney, lung, and liver and in fetal brain and kidney relative to lung and liver.   |
| 疾病相关  | Defects in CASK are the cause of mental retardation X-linked CASK-related (MRXCASK) [MIM:300749]. Mental retardation is characterized by significantly below average general intellectual functioning associated with impairments in adaptive behavior and manifested during the developmental period. Patients with mental retardation X-linked CASK-related can manifest a severe phenotype consisting of severe intellectual deficit, congenital or postnatal microcephaly, disproportionate brainstem and cerebellar hypoplasia (MICPCH Syndrome). A milder phenotype consists of mental retardation alone or associated with nystagmus.<br>Defects in CASK are the cause of FG syndrome type 4 (FGS4) [MIM:300422]. FG syndrome (FGS) is an X-linked disorder characterized by mental retardation, relative macrocephaly, hypotonia and constipation. |
| 序列相似性 | In the N-terminal section; belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. CaMK subfamily.<br>Belongs to the MAGUK family.<br>Contains 1 guanylate kinase-like domain.<br>Contains 2 L27 domains.<br>Contains 1 PDZ (DHR) domain.<br>Contains 1 protein kinase domain.<br>Contains 1 SH3 domain.  |
| 结构域   | The first L27 domain binds DLG1 and the second L27 domain probably binds LIN7.<br>The protein kinase domain mediates the interaction with FCHSD2.  |
| 细胞定位  | Nucleus. Cytoplasm. Cell membrane.   |

## 图片



Immunocytochemistry - Anti-CASK antibody  
(ab3383)

Immunofluorescence analysis of CASK in U-87 MG cells using ab3383. The cells were fixed with 4% paraformaldehyde permeabilized with 0.1% Triton™ X-100, and blocked with 1% BSA. The cells were labeled with ab3383 at 2 µg/mL in 0.1% BSA and incubated for 3 hours at room temperature followed by a Alexa Fluor® 488 Goat anti-Rabbit IgG (H+L) Secondary Antibody at 1/2000 dilution for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with DAPI. F-actin (Panel c: red) was stained with Alexa Fluor® 555 Rhodamine Phalloidin at 1/300. (Panel d) represents the merged image showing cytoplasmic localization. (Panel e) shows the no primary antibody control. The images were captured at 60X magnification.

173 kDa-  
111 kDa-  
80 kDa-



Western blot - Anti-CASK antibody (ab3383)

Western blot detection of CASK on AtT20 cell lysate using ab3383.

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