

### Anti-PIKE antibody ab21271

#### 2 图像

#### 概述

|       |   |
|-------|---|
| 产品名称  | Anti-PIKE抗体   |
| 描述    | 兔多克隆抗体to PIKE   |
| 宿主    | Rabbit  |
| 特异性   | Recognises PIKE: also detect both PIKE-L and PIKE-A isoforms.   |
| 经测试应用 | 适用于: IHC-P, WB  |
| 种属反应性 | 与反应: Mouse  |
| 免疫原   | Synthetic peptide corresponding to Human PIKE (C terminal).   |
| 阳性对照  | Mouse brain cell lysates.   |
| 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. Store at +4°C.   |
| 存储溶液 | <p>pH: 7.2</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituent: PBS</p> |
| 纯度   | Protein A purified   |
| 纯化说明 | Purified by ion exchange chromatography.                                       |
| 克隆   | 多克隆  |
| 同种型  | IgG  |

#### 应用

The Abpromise guarantee

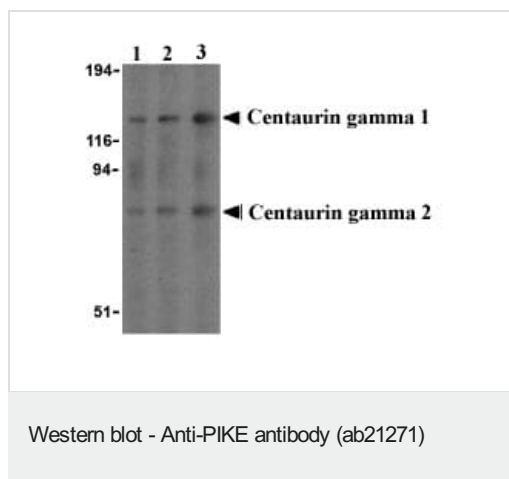
Abpromise™承诺保证使用ab21271于以下的经测试应用

“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 10 µg/ml.  |
| WB    |      | Use a concentration of 0.5 - 1 µg/ml. Detects a band of approximately 150, 80 kDa (predicted molecular weight: 90 kDa). |

|       |   |
|-------|---|
| 靶标    |   |
| 功能    | GTPase-activating protein (GAP) for ARF1 and ARF5, which also shows strong GTPase activity. Isoform 1 participates in the prevention of neuronal apoptosis by enhancing PI3 kinase activity. It aids the coupling of metabotropic glutamate receptor 1 (GRM1) to cytoplasmic PI3 kinase by interacting with Homer scaffolding proteins, and also seems to mediate anti-apoptotic effects of NGF by activating nuclear PI3 kinase. Isoform 2 does not stimulate PI3 kinase but may protect cells from apoptosis by stimulating Akt. It also regulates the adapter protein 1 (AP-1)-dependent trafficking of proteins in the endosomal system. It seems to be oncogenic. It is overexpressed in cancer cells, prevents apoptosis and promotes cancer cell invasion. |
| 组织特异性 | Isoform 1 is brain-specific. Isoform 2 is ubiquitously expressed, with highest levels in brain and heart.   |
| 序列相似性 | Belongs to the centaurin gamma-like family.<br>Contains 2 ANK repeats.<br>Contains 1 Arf-GAP domain.<br>Contains 1 PH domain.   |
| 结构域   | G domain binds GTP and has GTPase activity.<br>Arf-GAP domain interacts with G domain and may regulate its GTPase activity.<br>Although both PH domains of isoforms 1 and 2 bind phospholipids, they differently regulate subcellular location. PH domain of isoform 1 directs the protein to the nucleus, but PH domain of isoform 2 directs it to the cytosol. PH domain of isoform 2 is required for binding to AP-1.  |
| 翻译后修饰 | Isoform PIKE-A is phosphorylated at Tyr-682 and Tyr-774 by FYN, preventing its apoptotic cleavage.  |
| 细胞定位  | Cytoplasm and Cytoplasm. Nucleus.   |

图片



**Lane 1 :** Anti-PIKE antibody (ab21271) at 0.5 µg/ml

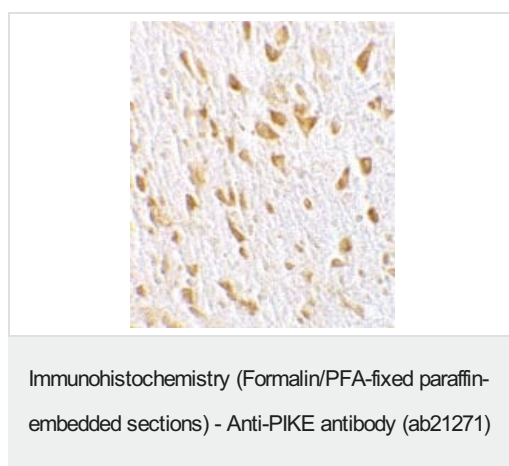
**Lane 2 :** Anti-PIKE antibody (ab21271) at 1 µg/ml

**Lane 3 :** Anti-PIKE antibody (ab21271) at 2 µg/ml

**All lanes :** Mouse brain cell lysate

**Predicted band size:** 90 kDa

Ab21271 at concentrations of 0.5 (lane A), 1 (lane B) and 2 µg/ml (lane C), staining PIKE-L and PIKE-A in mouse brain cell lysates by Western blot.



ab21271 at 10µg/ml staining PIKE in mouse brain tissue by IHC

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

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