abcam

Product datasheet

# Anti-Epac1 antibody ab88336

2 图像

## 概述

| | |
|---|---|
| **产品名称** | Anti-Epac1抗体 |
| **描述** | 小鼠单克隆抗体to Epac1 |
| **宿主** | Mouse |
| **经测试应用** | **适用于:** WB, ELISA |
| **种属反应性** | **与反应:** Human |
| **免疫原** | Recombinant fragment, corresponding to amino acids 772-881 of Human Epac1 (AAH17728), with a proprietary tag |
| **阳性对照** | A431 cell lysate |

## 性能

| | |
|---|---|
| **形式** | Liquid |
| **存放说明** | Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. |
| **存储溶液** | Preservative: None<br>Constituents: PBS, pH 7.2 |
| **纯度** | Protein A purified |
| **克隆** | 单克隆 |
| **同种型** | IgG2a |
| **轻链类型** | kappa |

## 应用

**The Abpromise guarantee** Abpromise™承诺保证使用ab88336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 |
|---|---|---|
| **WB** | | Use a concentration of 1 - 5 µg/ml. Predicted molecular weight: 104 kDa. |

| 应用 | Ab评论 | 说明 |
| --- | --- | --- |
| **ELISA** | | Use at an assay dependent dilution. |

## 靶标

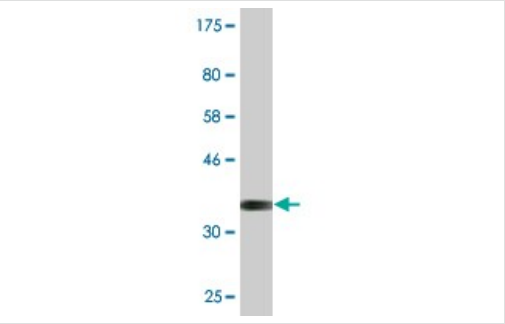
**相关性**

The activation of RaP1 by cAMP is independent of PKA and is mediated by recently discovered family of guanine nucleotide exchange factors (GEFs) called cAMP-GEFs or Epacs. The Epac signaling therefore represents a novel mechanism for cAMP signaling with in the cAMP cascade. There are 2 members of the Epac family, Epac1 and Epac 2. Both proteins are multidomain proteins containing an autoinhibitory cAMP-binding domain that inhibits the catalytic region and a DEP domain (dishevelled, Egl-10 and pleckstrin homology domain) targeting the membrane anchors. EPAC2 has an additional cAMP-binding site in its N-terminus that binds cAMP with low affinity. EPAC1 mRNA is broadly expressed, with particularly high levels occurring in the thyroid, ovary, kidney and certain brain regions, whereas expression of EPAC2 mRNA appears to be restricted to the brain and adrenal glands. Epac 1 and Epac 2 also interact with light chain 2 (LC2) or MAP1A that serves as a scaffolding structure to stabilize the signal transduction complex. The Epac 1-selective antibodies were generated against unique antigenic sequences form near N-terminus and between RasGEFN and Ras GEF domains. The antibodies to Epac 1are affinity purified over immobilized antigen based chromatography.

**细胞定位**

Endomembrane system

## 图片




Western blot - Anti-Epac1 antibody (ab88336)

Anti-Epac1 antibody (ab88336) at 1 µg/ml + immunogen at 0.2 µg

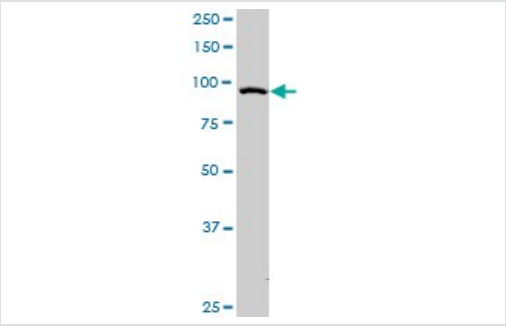
**Secondary**

Goat anti-Mouse IgG at 1/5000 dilution

**Predicted band size:** 104 kDa

**Observed band size:** 38 kDa

The observed band size may not correspond to the predicted protein molecular weight as the immunogen (recombinant fragment) was used for the test lane.




Western blot - Anti-Epac1 antibody (ab88336)

Anti-Epac1 antibody (ab88336) at 1 µg/ml + A431 cell lysate at 25 µg

**Secondary**

Goat anti-Mouse IgG at 1/5000 dilution

**Predicted band size:** 104 kDa

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

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