


# Anti-PKA alpha + beta (catalytic subunits) (phospho T197) antibody ab5815

[12 References](#) [1 图像](#)

### 概述

产品名称	Anti-PKA alpha + beta (catalytic subunits) (phospho T197)抗体
描述	兔多克隆抗体 to PKA alpha + beta (catalytic subunits) (phospho T197)
宿主	Rabbit
特异性	This antibody exhibited a preference for PKA catalytic subunit beta in some tested cell lines.
经测试应用	适用于: WB
种属反应性	与反应: Mouse 预测可用于: Cow, Pig 
免疫原	Synthetic peptide corresponding to PKA alpha + beta (catalytic subunits) (phospho T197).
阳性对照	Forskolin-treated NIH3T3 cells, and Y-1 mouse adrenal cortical cells.
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. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
存储溶液	pH: 7.30 Preservative: 0.05% Sodium azide Constituents: PBS, 0.1% BSA
纯度	Immunogen affinity purified
纯化说明	The antibody has been negatively preadsorbed using a non-phosphopeptide corresponding to the site of phosphorylation to remove antibody that is reactive with non-phosphorylated PKA. The final product is generated by affinity chromatography using a PKA-derived peptide that is

克隆

同种型

phosphorylated at threonine 197.

多克隆

IgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab5815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 0.1 - 0.75 µg/ml. Detects a band of approximately 42 kDa.

靶标

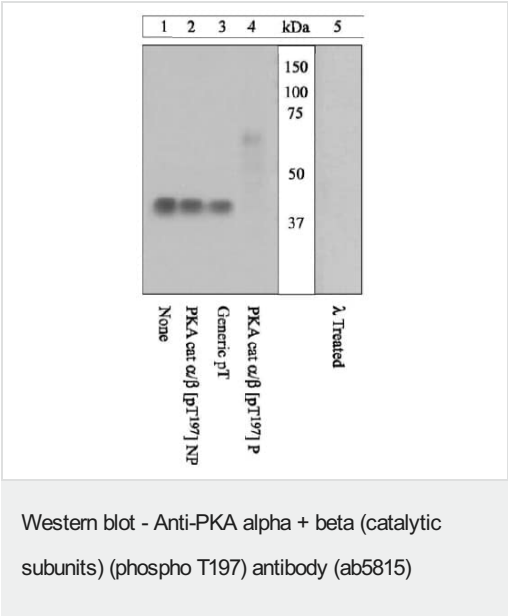
相关性

PRKACA and PRKACB are members of the Ser/Thr protein kinase family and are a catalytic subunit of cAMP-dependent protein kinase. cAMP is a signaling molecule important for a variety of cellular functions. cAMP exerts its effects by activating the cAMP-dependent protein kinase, which transduces the signal through phosphorylation of different target proteins. The inactive kinase holoenzyme is a tetramer composed of two regulatory and two catalytic subunits. cAMP causes the dissociation of the inactive holoenzyme into a dimer of regulatory subunits bound to four cAMP and two free monomeric catalytic subunits.

细胞定位

Cytoplasm. Nucleus. Note=Translocates into the nucleus (monomeric catalytic subunit). The inactive holoenzyme is found in the cytoplasm

图片



Peptide Competition and Phosphatase Treatment: Lysates prepared from Y1 Adrenocortical cells were resolved by SDS-PAGE on a 10% polyacrylamide gel and transferred to PVDF. Membranes were either left untreated (1-4) or treated with lambda phosphatase (5), blocked with a 5% BSA-TBST buffer for two hours at room temperature, then incubated with 0.35 µg/mL ab5815 antibody for two hours at room temperature in a 3% BSA-TBST buffer, following prior incubation with: no peptide (1, 5), the non-phosphopeptide corresponding to the immunogen (2), a generic phosphothreonine containing peptide (3), or, the phosphopeptide immunogen (4). After washing, membranes were incubated with goat F(ab' 2 anti-rabbit IgG HRP conjugate and bands were detected using the Pierce SuperSignal™ method. The data show that the peptide corresponding to PKA [pT197] blocks the antibody signal, thereby demonstrating the specificity of the antibody. The data also show that phosphatase stripping eliminates the signal,

verifying that the antibody is phospho-specific.

**Peptide Competition and Phosphatase Treatment:** Lysates prepared from Y1 Adrenocortical cells were resolved by SDS-PAGE on a 10% polyacrylamide gel and transferred to PVDF. Membranes were either left untreated (1-4) or treated with lambda phosphatase (5), blocked with a 5% BSA-TBST buffer for two hours at room temperature, then incubated with 0.35 µg/mL ab5815 antibody for two hours at room temperature in a 3% BSA-TBST buffer, following prior incubation with: no peptide (1, 5), the non-phosphopeptide corresponding to the immunogen (2), a generic phosphothreonine containing peptide (3), or, the phosphopeptide immunogen (4). After washing, membranes were incubated with goat F(ab' 2 anti-rabbit IgG HRP conjugate and bands were detected using the Pierce SuperSignal™ method. The data show that the peptide corresponding to PKA [pT197] blocks the antibody signal, thereby demonstrating the specificity of the antibody. The data also show that phosphatase stripping eliminates the signal, verifying that the antibody is phospho-specific.

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

### **Our Abpromise to you: Quality guaranteed and expert technical support**

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.cn/abpromise> or contact our technical team.

### **Terms and conditions**

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors