

Anti-CaMKII alpha (phospho T286) antibody [EPR1830] ab124880

重组 RabMAb

★★★★★ [1 Abreviews](#) [9 References](#) [6 图像](#)

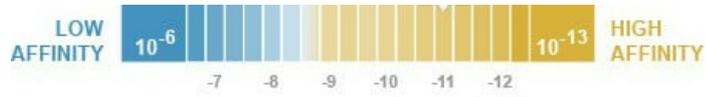
概述

产品名称	Anti-CaMKII alpha (phospho T286)抗体[EPR1830]
描述	兔单克隆抗体[EPR1830] to CaMKII alpha (phospho T286)
宿主	Rabbit
特异性	Due to the homology between the immunogen peptide and other CAMKII isoforms, ab124880 may cross react with CAMKII delta (KCC2D, 93% homology) and CAMKII gamma (KCC2G, 79% homology)
经测试应用	适用于: WB, IHC-P 不适用于: ICC/IF or IP
种属反应性	与反应: Mouse, Rat 不与反应: Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	IHC: mouse cerebellum, rat cerebellum. WB: untreated mouse brain tissue lysate, untreated rat brain tissue lysate.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
解离常数 (K _D)	K _D = 3.60 x 10 ⁻¹¹ M

10⁻¹¹



[Learn more about K_D](#)

存储溶液	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 0.05% BSA, 40% Glycerol (glycerin, glycerine), 59% PBS
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR1830
同种型	IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab124880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。

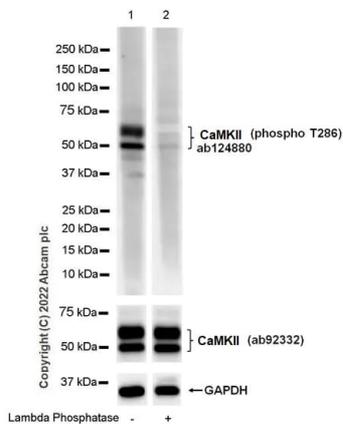
应用	Ab评论	说明
WB	★★★★★ (1)	1/4000. Detects a band of approximately 45-70 kDa (predicted molecular weight: 54 kDa).
IHC-P		1/5000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

应用说明 Is unsuitable for ICC/IF or IP.

靶标

功能	CaM-kinase II (CAMK2) is a prominent kinase in the central nervous system that may function in long-term potentiation and neurotransmitter release. Member of the NMDAR signaling complex in excitatory synapses it may regulate NMDAR-dependent potentiation of the AMPAR and synaptic plasticity.
序列相似性	Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. CaMK subfamily. Contains 1 protein kinase domain.
细胞定位	Cell junction > synapse > presynaptic cell membrane. Cell junction > synapse. Postsynaptic lipid rafts.

图片



Western blot - Anti-CaMKII alpha (phospho T286) antibody [EPR1830] (ab124880)

All lanes : Anti-CaMKII alpha (phospho T286) antibody [EPR1830] (ab124880) at 1/4000 dilution

Lane 1 : Rat brain tissue lysate (untreated membrane)

Lane 2 : Rat brain tissue lysate (Lambda phosphatase treated membrane)

Lysates/proteins at 20 µg per lane.

Secondary

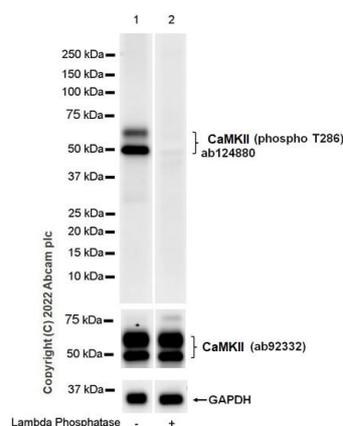
All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Predicted band size: 54 kDa

Observed band size: 50,54 kDa

Exposure time: 92 seconds

Blocking and diluting buffer and concentration: 5% NFDm/TBST



Western blot - Anti-CaMKII alpha (phospho T286) antibody [EPR1830] (ab124880)

All lanes : Anti-Myogenin antibody [EPR4789] ([ab124800](#)) at 1/4000 dilution

Lane 1 : Mouse brain tissue lysate (untreated membrane)

Lane 2 : Mouse brain tissue lysate (Lambda phosphatase treated membrane)

Lysates/proteins at 20 µg per lane.

Secondary

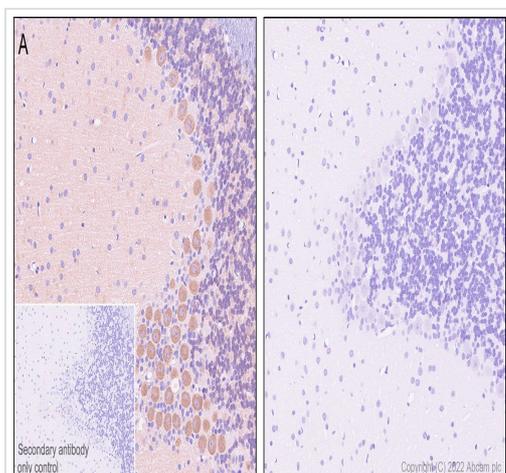
All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Predicted band size: 54 kDa

Observed band size: 50,54 kDa

Exposure time: 15 seconds

Blocking and diluting buffer and concentration: 5%
NFDM/TBST



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CaMKII alpha (phospho T286) antibody [EPR1830] (ab124880)

Immunohistochemical analysis of Paraffin-embedded sections Rat Cerebellum tissue labelling CaMKII (pT286) with ab124880 at 1/5000 dilution, followed by Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**)(Ready to use). Rat cerebellum without Lambda Protein Phosphatase treatment staining on Rat Cerebellum is observed. Counterstained with Hematoxylin.

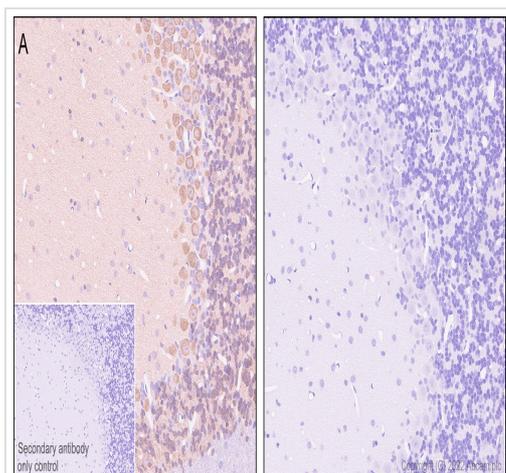
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**)(Ready to use).

Positive staining on rat cerebellum without Lambda Protein Phosphatase treatment (image A); No signal was detected when tissues were treated with Lambda Protein Phosphatase (image B).

The section was incubated with ab124880 for 30 mins at room temperature.

The immunostaining was performed on a Leica Biosystems BOND[®] RX instrument.

Heat mediated antigen retrieval with Citrate buffer (pH 6.0, Epitope Retrieval Solution 1) for 20 mins.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CaMKII alpha (phospho T286) antibody [EPR1830] (ab124880)

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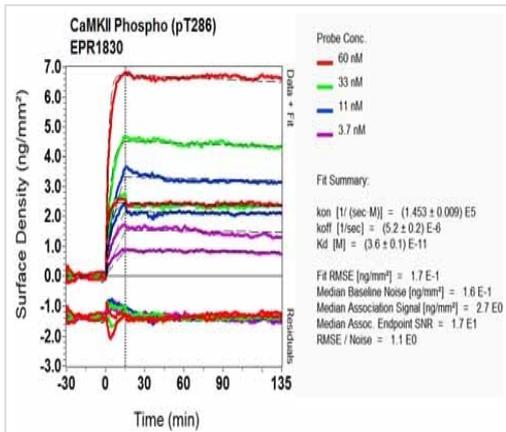
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OI-RD Scanning - Anti-CaMKII alpha + CaMKII beta
(phospho T286) antibody [EPR1830] (ab124880)

Equilibrium dissociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

Why choose a recombinant antibody?

- **Research with confidence**
Consistent and reproducible results
- **Long-term and scalable supply**
Recombinant technology
- **Success from the first experiment**
Confirmed specificity
- **Ethical standards compliant**
Animal-free production

Anti-CaMKII alpha + CaMKII beta (phospho T286)
antibody [EPR1830] (ab124880)

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