abcam

Product datasheet

Anti-CaMKII alpha antibody ab103840

3 References 画像数 2

製品の概要

製品名 Anti-CaMKII alpha antibody

製品の詳細 Rabbit polyclonal to CaMKII alpha

由来種 Rabbit

アプリケーション適用あり: WB, IHC-P種交差性交差種: Mouse, Rat

交差が予測される動物種: Horse, Chicken, Cow, Dog, Human, Pig, Orangutan 🔷

免疫原 Synthetic peptide within Human CaMKII alpha aa 400 to the C-terminus conjugated to keyhole

limpet haemocyanin. The exact sequence is proprietary.

(Peptide available as ab115931)

ポジティブ・コントロール

特記事項

WB: Mouse brain; Rat brain; Mouse cortex; Rat cortex. IHC-P: FFPE rat brain tissue sections.

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

製品の特性

製品の状態 Liquid

保存方法 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.

バッファー pH: 7.40

Preservative: 0.02% Sodium azide

Constituent: PBS

Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our

scientific support team who will be happy to help.

精製度 Immunogen affinity purified

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アイソタイプ

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アプリケーション

The Abpromise guarantee <u>Abpromise保証は、</u>次のテスト済みアプリケーションにおけるab103840の使用に適用されます アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 54 kDa (predicted molecular weight: 54 kDa).
IHC-P		Use a concentration of 1 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

ターゲット情報

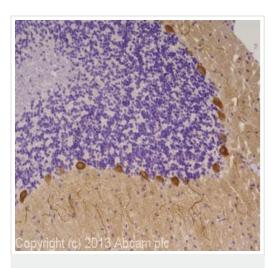
機能	CaM-kinase II (CAMK2) is a prominent kinase in the central nervous system that may function in long-term potentiation and neurotransmitter release. Member of the NMDAR signaling complex in excitatory synapses it may regulate NMDAR-dependent potentiation of the AMPAR and synaptic plasticity.
配列類似性	Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. CaMK subfamily. Contains 1 protein kinase domain.

細胞内局在

Cell junction > synapse > presynaptic cell membrane. Cell junction > synapse. Postsynaptic lipid

rafts.

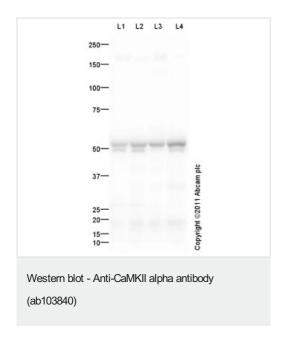
画像



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-CaMKII alpha antibody (ab103840)

IHC image of CaMKII alpha staining in rat brain formalin fixed paraffin embedded tissue section, performed on a Leica Bond system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab103840, 1µg/mI, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



All lanes: Anti-CaMKII alpha antibody (ab103840) at 1 µg/ml

Lane 1: Brain (Mouse) Tissue Lysate

Lane 2: Brain (Rat) Tissue Lysate

Lane 3: Mouse cortex Mouse Tissue Lysate

Lane 4: Rat Cortex Tissue Lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit lgG H&L (HRP) preadsorbed (**ab97080**) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 54 kDa **Observed band size:** 50,54 kDa

Exposure time: 1 minute

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