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Anti-CaMKII alpha CAMK2A Rabbit Monoclonal Antibody

Catalog Number: M03241

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Overview

Product Name	Anti-CaMKII alpha CAMK2A Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-CaMKII alpha CAMK2A Rabbit Monoclonal Antibody catalog # M03241. Tested in WB, IHC, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.
Application	Flow Cytometry, IP, IHC, WB
Clonality	Monoclonal AAFF-3
Formulation	Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q9UQM7

Technical Details

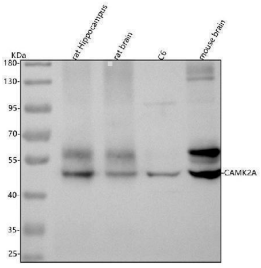
Immunogen	A synthesized peptide derived from human CaMKII alpha
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5mg/ml
Purification	Affinity-chromatography
Suggested Dilutions	WB 1:500-2000

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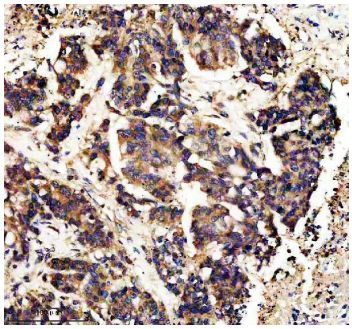
	IHC 1:50-200 IP 1:20 FC 1:20

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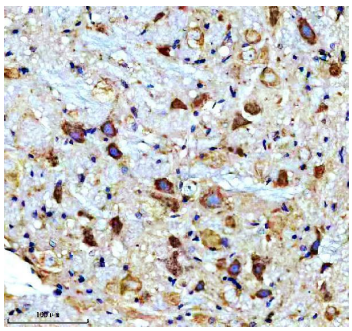
Anti-CaMKII alpha CAMK2A Rabbit Monoclonal Antibody (M03241) Images



Western blot analysis of CAMK2A using anti-CAMK2A antibody (M03241). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: rat Hippocampus tissue lysates, Lane 2: rat brain tissue lysates, Lane 3: rat C6 whole cell lysates, Lane 4: mouse brain tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-CAMK2A antigen affinity purified monoclonal antibody (Catalog # M03241) at 1:1000 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for CAMK2A at approximately 54 kDa. The expected band size for CAMK2A is at 54 kDa.



IHC analysis of CAMK2A using anti-CAMK2A antibody (M03241). CAMK2A was detected in a paraffin-embedded section of human colon cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-CAMK2A Antibody (M03241) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of CAMK2A using anti-CAMK2A antibody (M03241). CAMK2A was detected in a paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-CAMK2A Antibody (M03241) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

4 Publications Citing This Product

1. PubMed ID: 32174475, Ma L,Chen X,Zhao B,Shi Y,Han F.Enhanced apoptosis and decreased ampa receptors are involved in deficit in fear memory in rin1 knockout rats.J Affect Disord.2020 May 1;268:173-182.doi:10.1016/j.jad.2020.02.040. Epub 2020 Feb 27.PMID:32174475.

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2. PubMed ID: 28489932, Li Z, Yin P, Chen J, Jin S, Liu J, Luo F. PLoS One. 2017 May 10;12(5):e0177412. doi: 10.1371/journal.pone.0177412. eCollection 2017. CaMKIIalpha may modulate fentanyl-induced hyperalgesia via a CeLC-PAG-RVM-spinal cord descending facilitative pain pat...

3. PubMed ID: 25010576, Anti-Epileptic Effect of Ganoderma Lucidum Polysaccharides by Inhibition of Intracellular Calcium Accumulation and Stimulation of Expression of CaMKII ? in Epileptic Hippocampal Neurons

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Anti-CaMKII alpha CAMK2A Rabbit Monoclonal Antibody

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