

Anti-CaMKII alpha CAMK2A Rabbit Monoclonal Antibody

Catalog Number: M03241

About CAMK2A

Receptor for bradykinin. It is associated with G proteins that activate a phosphatidylinositol-calcium second messenger system.

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, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.
Application	Flow Cytometry, IP, WB
Clonality	Monoclonal AAFF-3
Formulation	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
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	Actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Affinity-chromatography
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: WB 1:1000-1:5000 IP 1:50 FC 1:100

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

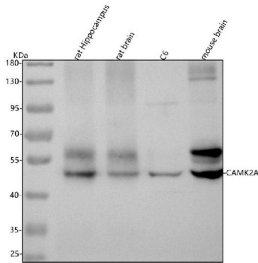


Figure 1. Western blot analysis of DBN1 using anti-DBN1 antibody (M05530).

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: human Hela whole cell lysates,

Lane 2: human K562 whole cell lysates,

Lane 3: human SH-SY5Y whole cell lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes.

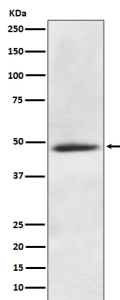
Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT.

The membrane was incubated with rabbit anti-DBN1 antigen affinity purified monoclonal antibody (Catalog # M05530) at 1:500 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 DBN1 at approximately 120 kDa. The

expected band size for DBN1 is at 71 kDa.



Western blot analysis of CaMKII alpha expression in SH-SY5Y cell lysate.

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.

2. PubMed ID: 27451410, Inhibition of CaMKII α in the central nucleus of amygdala attenuates fentanyl-induced hyperalgesia in rats

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

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