CaMKII alpha Rabbit mAb

Catalog No: #49467

Package Size: #49467-1 50ul #49467-2 100ul

Signalway Antibody
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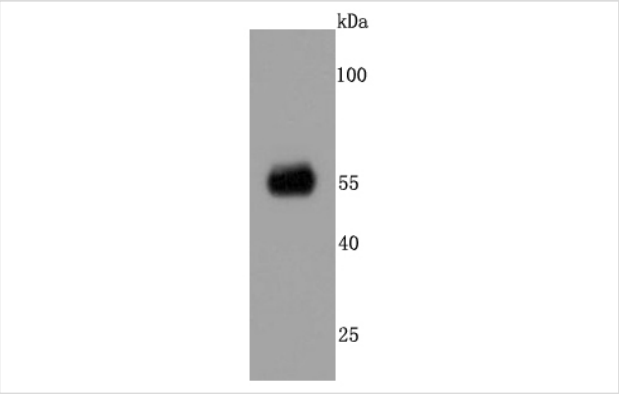
Description

Product Name	CaMKII alpha Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal
Clone No.	JM11-07
Purification	ProA affinity purified
Applications	WB, IP, FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	Alpha CaMKII antibody Calcium calmodulin dependent protein kinase II antibody Calcium/calmodulin dependent protein kinase II alpha B subunit antibody Calcium/calmodulin dependent protein kinase type II alpha chain antibody Calcium/calmodulin-dependent protein kinase (CaM kinase) II alpha antibody Calcium/calmodulin-dependent protein kinase II alpha antibody Calcium/calmodulin-dependent protein kinase II-alpha antibody Calcium/calmodulin-dependent protein kinase type II subunit alpha antibody Calcium/calmodulin-dependent protein kinase type IIA antibody CaM kinase II alpha chain antibody CaM kinase II alpha subunit antibody CaM kinase II subunit alpha antibody CaMK II alpha subunit antibody CaMK-II subunit alpha antibody Camk2a antibody CAMKA antibody CaMKII antibody CaMKIINalpha antibody EC 2.7.11.17 antibody KCC2A_HUMAN antibody KIAA0968 antibody MGC123320 antibody MGC139375 antibody MGC155201 antibody mKIAA0968 antibody PK2CDD antibody PKCCD antibody R74975 antibody zgc:112538 antibody zgc:123320 antibody
Accession No.	Swiss-Prot#:Q9UQM7
Calculated MW	54 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

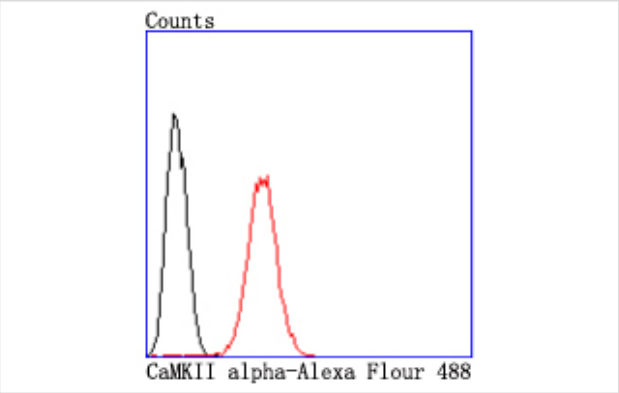
Application Details

WB: 1:1,000-1:2,000 IP: 1:10-1:50FC: 1:50-1:100

Images



Western blot analysis of CaMKII alpha on rat brain cells lysates using anti-CaMKII alpha antibody at 1/500 dilution.



Flow cytometric analysis of SH-SY5Y cells with CaMKII alpha antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

Background

The Ca2+/calmodulin-dependent protein kinases (CaM kinases) comprise a structurally related subfamily of serine/threonine kinases which include CaMKI, CaMKII and CaMKIV. CaMKII is a ubiquitously expressed serine/threonine protein kinase that is activated by Ca2+and calmodulin (CaM) and has been implicated in regulation of the cell cycle and transcription. There are four CaMKII isozymes designated α, β, γ and δ, which may or may not be co-expressed in the same tissue type. CaMKIV is stimulated by Ca2+ and CaM but also requires phosphorylation by a CaMK for full activation. Stimulation of the T cell receptor CD3 signaling complex with an anti-CD3 monoclonal antibody leads to a 10-40 fold increase in CaMKIV activity. An additional kinase, CaMKK, functions to activate CaMKI through the specific phosphorylation of the regulatory Threonine residue at position 177.

References

Note: This product is for in vitro research use only and is not intended for use in humans or animals.