CaMKII alpha Conjugated Antibody

Catalog No: #C49467

Package Size: #C49467-AF350 100ul #C49467-AF405 100ul #C49467-AF488 100ul #C49467-AF555 100ul #C49467-AF594 100ul #C49467-AF647 100ul #C49467-AF680 100ul #C49467-AF750 100ul #C49467-Biotin 100ul

Orders: order@signalwayantibody.com
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Description

Product Name	CaMKII alpha Conjugated Antibody
Host Species	Rabbit
Clonality	Monoclonal
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
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
Uniprot	Q9UQM7
GeneID	815;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Calculated MW	54 kDa
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

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.

Note: This product is for in vitro research use only