CAMK2G Antibody

Catalog No: #48383

Package Size: #48383-1 50ul #48383-2 100ul



Orders: order@signalwayantibody.com Support: tech@signalwayantibody.com

Description	
Product Name	CAMK2G Antibody
Host Species	Mouse
Clonality	Monoclonal
Clone No.	10C-G1
Purification	ProA affinity purified
Applications	WB, IHC, FC
Species Reactivity	Hu, Rt
Immunogen Description	Recombinant protein
Other Names	Calcium/calmodulin dependent protein kinase II alpha antibody Calcium/calmodulin dependent protein kinase
	II beta antibody Calcium/calmodulin dependent protein kinase II delta antibody Calcium/calmodulin dependent
	protein kinase II gamma antibody Calcium/calmodulin-dependent protein kinase type II subunit alpha antibody
	CaM kinase II alpha antibody CaM kinase II antibody CaM kinase II beta antibody CaM kinase II delta
	antibody CaM kinase II gamma antibody CaM kinase II subunit alpha antibody CaMK-II subunit alpha antibody
	CAMK2 antibody Camk2a antibody CAMK2B antibody CAMK2D antibody CAMK2G antibody CAMKA
	antibody KCC2A_HUMAN antibody
Accession No.	Swiss-Prot#:Q13555
Uniprot	Q13555
GenelD	818;
Calculated MW	63 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

Application Details

WB: 1:500-1:2,000IHC: 1:200-1:500

FC: 1:50-1:100

Images



Western blot analysis of CaMKII gamma on human CaMKII gamma recombinant protein using anti- CaMKII gamma antibody at 1/1,000 dilution.



Western blot analysis of CaMKII gamma on HEK293 (1) and CaMKII gamma -hIgGFc transfected HEK293 (2) cell lysate using anti- CaMKII gamma antibody at 1/1,000 dilution.



 $\label{eq:Western blot analysis of CaMKII gamma on different cell \\ \mbox{lysate using anti- CaMKII gamma antibody at 1/1,000 dilution.} \\ \mbox{Positive controlo} \Omega \mbox{$^{\prime}_{20}$} \Omega \mbox{$^{\prime}_{2}$ Line1: PC-12 $ Line2: Jurkat $ Line3: T47D $ Line4: HepG2 $ Line4: HepG4 $ Line4: Hep$



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue using anti- CaMKII gamma antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human bladder cancer tissue using anti- CaMKII gamma antibody. Counter stained with hematoxylin.

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Flow cytometric analysis of Jurkat cells with CaMKII gamma antibody at 1/100 dilution (green) compared with an unlabelled control (cells without incubation with primary antibody; red).

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