## For Research Use Only

## CaMKII alpha Monoclonal antibody

Catalog Number:66843-1-lg <u>3 Publications</u>

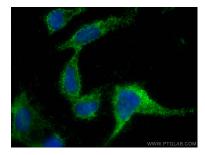


Basic Information	Catalog Number: 66843-1-lg	GenBank Accession Number: BC040457		Purification Method: Protein A purification	
	Size:	GeneID (NCBI):		CloneNo.:	
	150ul , Concentration: 1300 ug/ml by			1E3B3	
	Nanodrop and 1000 ug/ml by Bradford	<sup>J</sup> UNIPROT ID: Q9UQM7 Full Name:		Recommended Dilutions: WB 1:5000-1:50000 IHC 1:500-1:2000	
	method using BSA as the standard;				
	Source:				
	Mouse	calcium/calmodulir	n-dependent	IF/ICC 1:200-1:800	
	Isotype:	protein kinase II alpha Calculated MW: 478 aa, 54 kDa			
	lgG1				
	Immunogen Catalog Number: AG4736				
		Observed MW:			
		45-60 kDa			
Applications	Tested Applications:		Positive Cor	itive Controls: : pig brain tissue, pig cerebellum tissue, rat brain	
	WB, IHC, IF/ICC, ELISA		WB: pig brai		
	Cited Applications: WB, IF		tissue, rat cerebellum tissue, mouse brain tissue, mouse cerebellum tissue, rabbit brain tissue, rat rair		
					Species Specificity:
	Human, Mouse, Rat, Pig IHC : mo		IHC : mouse	ise brain tissue, human renal cell carcinom	
	Cited Species:		tissue		
	mouse, rat		IF/ICC : SH-S	SY5Y cells,	
	Note-IHC: suggested antigen ro TE buffer pH 9.0; (*) Alternativ retrieval may be performed wa buffer pH 6.0	vely, antigen			
Background Information	•	ease. It is a member	of the NMDAR s	ignaling complex in excitatory synapses	
	potentiation and neurotransmitter rel may regulate NMDAR-dependent pote the members of the CAMK2 family.	ease. It is a member	of the NMDAR s	ignaling complex in excitatory synapses	
Background Information	potentiation and neurotransmitter rel may regulate NMDAR-dependent pote the members of the CAMK2 family.	ease. It is a member entiation of the AMPA ned ID Journ	of the NMDAR s	ignaling complex in excitatory synapses plasticity. This antibody can recognize a	
	potentiation and neurotransmitter rel may regulate NMDAR-dependent pote the members of the CAMK2 family. Author Puber Ting-Ting Chen 3371	ease. It is a member entiation of the AMPA ned ID Journ 14957 Aging	of the NMDAR s	ignaling complex in excitatory synapses plasticity. This antibody can recognize a Application	
	potentiation and neurotransmitter rel may regulate NMDAR-dependent pote the members of the CAMK2 family. Author Pubr Ting-Ting Chen 3371 Yan Sun 3885	ease. It is a member entiation of the AMPA ned ID Journ 14957 Aging 52473 Phyto	of the NMDAR s R and synaptic nal g (Albany NY)	ignaling complex in excitatory synapses plasticity. This antibody can recognize a Application WB	
Notable Publications	potentiation and neurotransmitter rel may regulate NMDAR-dependent pote the members of the CAMK2 family. Author Pubn Ting-Ting Chen 3371 Yan Sun 3885 Yuting Jiang 3863 Storage: Storage st -20°C. Stable for one year after Storage Buffer: PBS with 0.02% sodium azide and 500	ease. It is a member entiation of the AMPA ned ID Jourr 14957 Aging 52473 Phyto 36611 Brain er shipment. % glycerol pH 7.3.	of the NMDAR s R and synaptic al g (Albany NY) pmedicine	ignaling complex in excitatory synapses plasticity. This antibody can recognize a <b>Application</b> WB WB	
	potentiation and neurotransmitter rel may regulate NMDAR-dependent pote the members of the CAMK2 family. Author Pubn Ting-Ting Chen 3371 Yan Sun 3885 Yuting Jiang 3863 Storage: Storage: Storage Buffer:	ease. It is a member entiation of the AMPA ned ID Jourr 14957 Aging 52473 Phyto 36611 Brain er shipment. % glycerol pH 7.3.	of the NMDAR s R and synaptic al g (Albany NY) pmedicine	ignaling complex in excitatory synapses plasticity. This antibody can recognize a <b>Application</b> WB WB	

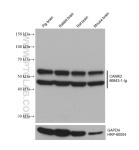
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll freeE: proteintech@ptglab.comin USA), or 1(312) 455-8498 (outside USA)W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



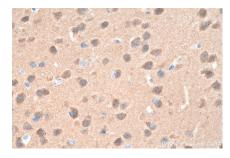
Immunofluorescent analysis of (4% PFA) fixed SH-SY5Y cells using CAMK2 antibody (66843-1-1g, Clone: 1E3B3) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).



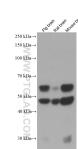
Various lysates were subjected to SDS PAGE followed by western blot with 66843-1-1g (CAMK2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 66843-1-Ig (CAMK2 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 66843-1-Ig (CAMK2 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 66843-1-Ig (CAMK2A antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.