## For Research Use Only

## CaMKII Beta Polyclonal antibody

Catalog Number:11533-1-AP Featured Product

11 Publications

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		BC019070	Purification Method: Antigen affinity purification	
	11533-1-AP Concentration:	GenelD (NCBI):	Recommended Dilutions:	
	400 ug/ml	816	WB 1:1000-1:4000	
	Source: Rabbit	UNIPROT ID: Q13554 Full Name:	IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:20-1:200	
	Isotype: IgG Immunogen Catalog Number: AG2119	calcium/calmodulin-dependent		
		protein kinase II beta		
		Calculated MW: 503 aa, 56 kDa	<u>.</u>	
		Observed MW: 50-70 kDa		
Applications	Tested Applications: Positive Controls:			
	WB, IHC, IP, ELISA		ouse brain tissue, SH-SY5Y cells, human brai	
	Cited Applications: tissue, rat		t brain tissue e brain tissue	
	Species Specificity:		ian gliomas tissue, human brain tissue	
	Cited Species:			
	human, mouse, rat, pig, zebra finches			
	TE buffer pH 9.0; (*) Alterno retrieval may be performed buffer pH 6.0			
Background Information	CAMK2B(Calcium/calmodulin-dependent protein kinase type II subunit beta ), also named CAM2, CAMK2, and CAMKB, belongs to the protein kinase superfamily, CAMK Ser/Thr protein kinase family, and CaMK subfamily. It is prominent kinase in the central nervous system that may function in long-term potentiation and neurotransmitter release. CAMK2B is a member of the NMDAR signaling complex in excitatory synapses, it may regulate NMDAR-dependent potentiation of the AMPAR and synaptic plasticity. It plays a distinct role in the induction of anergy in lymphocytes, by differential regulation of IL10 and IL2 gene transcription suggesting MEF2A as a molecular targe that can integrate different calcium signals(PMID:22578382). This protein has 8 isoforms produced by alternative splicing with a molecular weight between 50 kDa and 73 kDa. This antibody may have cross-reaction with CAMK2A/D/G due to the high homology.			
	splicing with a molecular weight			
Notable Publications	splicing with a molecular weight			
Notable Publications	splicing with a molecular weight CAMK2A/D/G due to the high hom	nology.	ibody may have cross-reaction with Application	
Notable Publications	splicing with a molecular weight CAMK2A/D/G due to the high hom Author	nology. Pubmed ID Journal	ibody may have cross-reaction with Application WB	
Notable Publications	splicing with a molecular weight CAMK2A/D/G due to the high hom Author Lisa Y So	Pubmed ID Journal 33031871 Behav Brain Res	ibody may have cross-reaction with Application WB n WB	
	splicing with a molecular weight CAMK2A/D/G due to the high hom Author Lisa Y So Huanliang Liu Ting-Ting Chen	Pubmed ID     Journal       33031871     Behav Brain Res       31829301     Sci Total Environ	ibody may have cross-reaction with Application WB n WB	
Notable Publications Storage	splicing with a molecular weight CAMK2A/D/G due to the high horr Author Lisa Y So Huanliang Liu	Pubmed ID Journal 33031871 Behav Brain Res 31829301 Sci Total Enviro 33714957 Aging (Albany N	ibody may have cross-reaction with Application WB n WB	

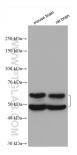
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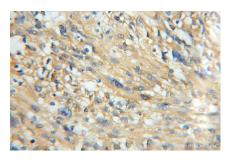
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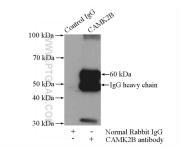
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## Selected Validation Data





Immunohistochemical analysis of paraffinembedded human gliomas using 11533-1-AP (CaMKII beta antibody) at dilution of 1:50 (under 10x lens).



IP result of anti-CaMKII Beta (IP:11533-1-AP, 4ug; Detection:11533-1-AP 1:1000) with mouse brain tissue lysate 4000ug.

Various lysates were subjected to SDS PAGE followed by western blot with 11533-1-AP (CaMKII beta antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.