

For Research Use Only

CAMK2B Recombinant monoclonal antibody

Catalog Number: 86858-1-RR



Basic Information

Catalog Number: 86858-1-RR	GenBank Accession Number: BC019070	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 816	CloneNo.: 251925D4
Source: Rabbit	UNIPROT ID: Q13554	Recommended Dilutions: WB: 1:5000-1:50000
Isotype: IgG	Full Name: calcium/calmodulin-dependent protein kinase II beta	
Immunogen Catalog Number: AG2119	Calculated MW: 503 aa, 56 kDa	
	Observed MW: 50-70 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : U-251 cells, SH-SY5Y cells, Neuro-2a cells, C6 cells, rat brain tissue, mouse brain tissue, fetal human brain tissue
Species Specificity: human, mouse, rat	

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 a 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 T lymphocytes, by differential regulation of IL10 and IL2 gene transcription suggesting MEF2A as a molecular target 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.

Storage

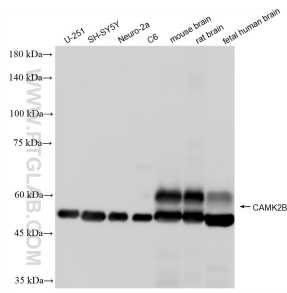
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

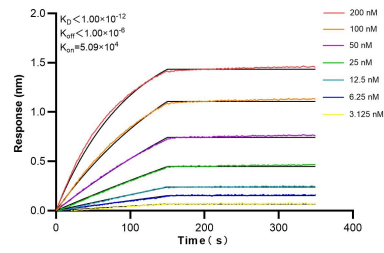
For technical support and original validation data for this product please contact:
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86858-1-RR (CAMK2B antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 86858-1-RR against Human CAMK2B were performed. The affinity constant is below 1 pM.