

For Research Use Only

CAMK2D Recombinant antibody

Catalog Number: 81014-1-RR



Basic Information

Catalog Number: 81014-1-RR	GenBank Accession Number: BC032784	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 817	CloneNo.: 1M10
Source: Rabbit	UNIPROT ID: Q13557	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:50-1:500
Isotype: IgG	Full Name: calcium/calmodulin-dependent protein kinase II delta	
Immunogen Catalog Number: AG31276	Calculated MW: 59 kDa	
	Observed MW: 54-59 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Species Specificity: human, mouse, rat, pig	WB : rat brain tissue, mouse brain tissue, pig brain tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : mouse brain tissue,

Background Information

CaMKII delta, also named as CAMKD, belongs to the protein kinase superfamily, CAMK Ser/Thr protein kinase family and CaMK subfamily. CaM-kinase II (CAMK2) is a prominent kinase in the central nervous system that may function in long-term potentiation and neurotransmitter release, composed of four different chains: alpha, beta, gamma, and delta. The CAMK2 protein kinases contain a unique C-terminal subunit association domain responsible for oligomerization. The different chains assemble into homo-or heteromultimeric holoenzymes composed of 8 to 12 subunits. This antibody is specific to the C-term of delta chain, CaMKII delta. It may also recognize CAMK2A due to the high homology.

Storage

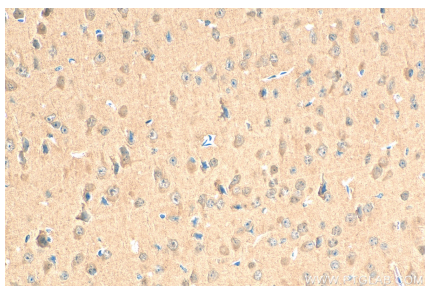
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

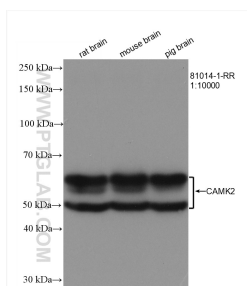
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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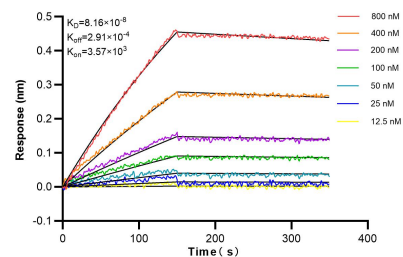
Selected Validation Data



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 81014-1-RR (CAMK2D antibody) at dilution of 1:200 (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 81014-1-RR (CAMK2D antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 81014-1-RR against Human CAMK2D were performed. The affinity constant is 81.6 nM.