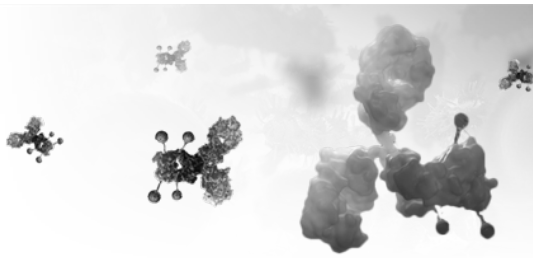

Mouse anti-Rat CaM Kinase monoclonal antibody, clone 7/DbN (CABT-B9181)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	Rat CaM Kinase Kinase aa. 341-504
Isotype	IgG2a
Source/Host	Mouse
Species Reactivity	Rat, Human, Dog
Clone	7/DbN
Purification	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Conjugate	Unconjugated
Applications	WB; IF; IHC
Format	Liquid
Concentration	250 μg/ml
Size	50 μg, 150 μg
Buffer	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.
Storage	Store undiluted at -20°C.

BACKGROUND

Introduction	Ca2+/Calmodulin (CaM)-dependent kinases are multifunctional kinases involved in a myriad of

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

	cellular functions such as neurotransmitter synthesis, long-term potentiation, and formation of spatial learning. A 68kDa CaM Kinase Kinase with homology to the Ca2+/CaM-dependent kinases, phosphorylates and activates Ca2+/CaM-dependent protein kinases I and IV, but not type II. This phosphorylation occurs on Ser/Thr residues and is Ca2+ and CaM dependent. CaM Kinase Kinase is abundant in brain tissue, and is thought to be an upstream regulator in the Ca2+/CaM-dependent neural processes.
Keywords	CAMK1; calcium/calmodulin-dependent protein kinase I; CAMKI; calcium/calmodulin-dependent protein kinase type 1; caM-KI; caMKI-alpha; caM kinase I alpha;

GENE INFORMATION

Entrez Gene ID	8536
UniProt ID	B0YIY3

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