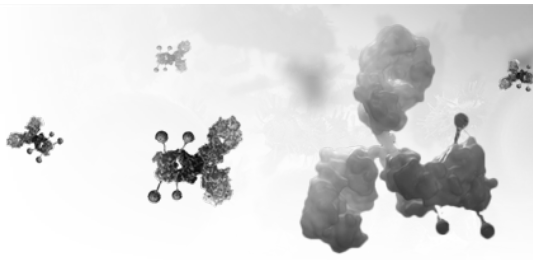

Rabbit Anti-Calmodulin monoclonal antibody, clone TK27-10 (CABT-L623)

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

PRODUCT INFORMATION

Target	Calmodulin
Immunogen	Recombinant protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Clone	TK27-10
Purification	Protein A purified.
Conjugate	Unconjugated
Applications	WB, ICC/IF, IHC, IP
Molecular Weight	17 kDa
Cellular Localization	Cytoplasm.
Positive Control	NIH/3T3, MCF-7, Hela, HepG2, mouse cerebellum tissue, rat brain tissue, mouse brain tissue.
Format	Liquid
Size	100 µl
Buffer	1×TBS (pH7.4), 1% BSA, 40% Glycerol.
Preservative	0.05% Sodium Azide

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Storage	Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

BACKGROUND

Introduction	The level of intracellular calcium is tightly regulated in all eukaryotic cells. A modest increase in this level can result in a myriad of physiological responses, most of which are mediated by calmodulin (CaM), the universal calcium sensor. CaM directly modulates the activity of protein kinases and phosphatases, ion channels and nitric oxide synthetases. It is generally involved in such diverse processes as cell proliferation, endocytosis, cellular adhesion, protein turn over and smooth muscle contraction. CaM (calmodulin) is an acidic protein, 148 amino acids in length, with four helix-loop-helix calcium binding domains. In humans, 3 distinct genes have been identified (CALM1, CALM2 and CALM3); each encoding the identical protein. CALML3 (calmodulin-like 3, or calmodulin-related protein NB-1) shares significant sequence identity with CaM and it is suggested that it may competitively bind CaM substrates. Interestingly, CaM has been shown to associate with the carboxy terminus of the dystrophin gene product, implying that it may regulate its activity.
Keywords	CALM 1;CALM 2;CALM 3;CALM;CALM_HUMAN;CALM1;CALM2;Calm3;CALML2;calmodulin 1 (phosphorylase kinase, delta);Calmodulin 2 (phosphorylase kinase, delta);Calmodulin 3 (phosphorylase kinase, delta);Calmodulin;CaM;CAM I;CAM1;CAM2;CAM3;CAMB;CAMC;CAMI;CAMII;CPVT4;DD132;FLJ99410;LP7057 protein;PHKD;PHKD2;PHKD3;phosphorylase kinase delta;phosphorylase kinase, delta subunit antibody

GENE INFORMATION

Entrez Gene ID	3661

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