



Calmodulin Monoclonal Antibody

Catalog No	YP-mAb-03094
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	CALM1
Immunogen	The antiserum was produced against synthesized peptide derived from human Calmodulin. AA range:46-95
Specificity	Calmodulin Monoclonal Antibody detects endogenous levels of Calmodulin protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CALM3;CALML2;Calmodulin 1/2/3;Calmodulin 3;CaM;Calmodulin;CALM1;CALM;CAM1;CALM2;CAM2;CAMB;CAM3;CAMC;CAMIII
Observed Band	17kD
Calculated Molecular Weight	17kD
Cell Pathway	spindle pole,extracellular region,nucleus,nucleoplasm,cytoplasm,centrosome,cytosol,spindle microtubule,plasma membrane,voltage-gated potassium channel complex,sarcomere,growth cone,vesicle,calcium channel complex,G
Tissue Specificity	Blood,Brain,Cajal-Retzius cell,Fetal brain cortex,Lung,Lymph,Lymphoma,Muscle,Osteosarcoma,P
Function	function:Calmodulin mediates the control of a large number of enzymes and other proteins by Ca(2+). Among the enzymes to be stimulated by the calmodulin-Ca(2+) complex are a number of protein kinases and phosphatases. Together with CEP110 and centrin, is involved in a genetic pathway that regulates the centrosome cycle and progression through cytokinesis., miscellaneous:This protein has four functional calcium-binding sites., PTM:Phosphorylation results in a decreased activity.,PTM:Ubiquitination results in a strongly decreased activity.,similarity:Belongs to the calmodulin family.,



similarity:Contains 4 EF-hand domains.,subcellular location:Distributed throughout the cell during interphase, but during mitosis becomes dramatically localized to the spindle poles and the spindle microtubules.,subunit:Interacts with MYO1C (By similarity). Interacts with CEP97, CEP110, TTN/titin and SRY.,

Background

This gene encodes a member of the EF-hand calcium-binding protein family. It is one of three genes which encode an identical calcium binding protein which is one of the four subunits of phosphorylase kinase. Two pseudogenes have been identified on chromosome 7 and X. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Oct 2009],

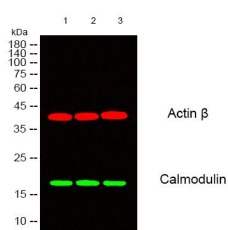
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using Calmodulin Monoclonal Antibody