## Calcineurin B / PPP3R1 Monoclonal Mouse Antibody (CALNB/2342)



Call us: 800-304-5357

## **Product Description**

This antibody recognizes the Calcineurin B alpha protein, encoded by the PPP3R1 (Protein Phosphatase Regulatory Subunit B Alpha) gene. Calcineurin is an enzyme that dephosphorylates serine and threonine reproteins. It is a heterodimer of a 59 kDa catalytic A subunit and a 19 kDa regulatory B subunit that is activa the binding of calcium ions and calmodulin. Calcineurin is expressed in many tissues, but its levels are high brain, where it may play a role in learning and memory. It has many substrates, including NFAT, a transcri factor that is activated by dephosphorylation. Complexes of the immuno-suppressants cyclosporine and Fl immunophilin proteins such as cyclophilin and FKBP12 are potent and specific inhibitors of Calcineurin act Alterations in Calcineurin activity are suspected to play a role in cardiac hypertrophy and graft versus host in organ transplantation. Primary antibodies are available purified, or with a selection of fluorescent CF® d other labels. CF® dyes offer exceptional brightness and photostability. See the CF® Dye Brochure for mor information. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommende detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-spe background than other dye colors. **Stock status:** Because Biotium offers a large number of antibody and conjugation options, primary antibody conjugates may be made to order. Typical lead times are up to one CF® dye and biotin conjugates, and up to 2-3 weeks for fluorescent protein and enzyme conjugates. Pleas order@biotium.com to inquire about stock status and lead times before placing your order. Catalog numb for antibody number 2342, Calcineurin B / PPP3R1 Monoclonal Mouse Antibody (CALNB/2342)

	<b>Product attributes</b>	
	Antibody number	#2342
	Antibody reactivity (target) Antibody type	Calcineurin B, PPP3R1
		Primary
	Host species	Mouse
	Clonality	Monoclonal
	Clone	CALNB/2342
	Isotype	IgG1, kappa
	Molecular weight	19 kDa
residues in ated by shest in the iption K506 with ctivity. It disease dyes and ore ed for secific week for use email ber key	Synonyms	Calcineurin B; Calcineurin subunit B type 1; Protein Phosphatase 3 Regulatory Subunit B Alpha; CALNB1; Cna2; CNB; CNB1; PPP3R1
	Human gene symbol	PPP3R1
	Entrez gene ID	5534
	SwissProt	P63098
	Unigene	280604
	Immunogen	Recombinant full-length Calcineurin B protein
	Antibody target cellular	Nucleus & cytoplasm
	Verified antibody applications Species reactivity	IHC (FFPE) (verified)
		Human
	Positive control	HeLa, MCF-7 or A431 cells. Prostate, Thyroid or Pancreas.
	Shipping condition	Room temperature

Storage Conditions

Regulatory status

Shelf life

Antibody/conjugate formulation

Cell/tissue expression

Antibody research areas Ion channels

Email: btinfo@biotium.com

Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C

Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% azide, Purified, BSA-free: 1 mg/mL in PBS without azide,

Guaranteed for at least 24 months from date of receipt when stored as recommended

For research use only (RUO)

without azide

Brain, T-cells

Antibody # prefix	Conjugation	Ex/Em (nm)	Laser line	Detection channel	Dye Features
BNC04	CF®405S	404/431	405	DAPI (microscopy), AF405	CF®405S Features
BNC88	CF®488A	490/515	488	GFP, FITC	CF®488A Features
BNC68	CF®568	562/583	532, 561	RFP, TRITC	CF®568 Features
BNC94	CF®594	593/614	561	Texas Red®	CF®594 Features
BNC40	CF®640R	642/662	633-640	Cy®5	CF®640R Features
BNC47	CF®647	650/665	633-640	Cy®5	CF®647 Features
BNCB	Biotin	N/A	N/A	N/A	
BNUB	Purified	N/A	N/A	N/A	
BNUM	Purified,	N/A	N/A	N/A	

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