Anti-Calmodulin 3 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R015214

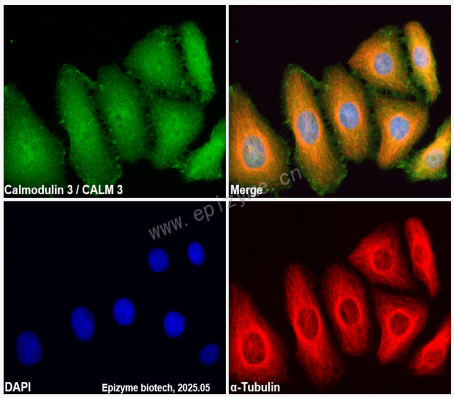
Product Information

Application	WB, IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:8,000; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	68P49S38
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Calmodulin 3
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Calmodulin 3 Rabbit mAb [68P49S38] is for research use only and not for use in diagnostic or therapeutic procedures.

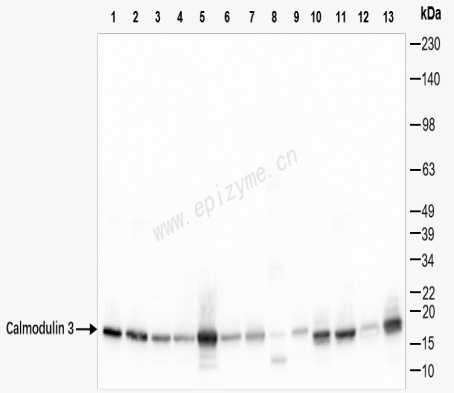
Protein Information

Synonyms	CALM 3; CALM3; CALML2; Calmodulin 3 (phosphorylase kinase, delta); Calmodulin 3; CAM 3; CAM3; CAMC; CAMIII; CPVT4; DD132; FLJ99410; LP7057 protein; PHKD3; phosphorylase kinase delta; phosphorylase kinase, delta subunit.
Calculated MW	Calculated MW: 17 kDa; Observed MW: 17 kDa
Uniprot ID	P62158
Gene ID	808
Background	This gene encodes a member of a family of proteins that binds calcium and functions as a enzymatic co-factor. Activity of this protein is important in the regulation of the cell cycle and cytokinesis. Multiple alternatively spliced transcript variants have been observed at this gene. [provided by RefSeq, Aug 2016]
Cellular Location	Cytoplasm > cytoskeleton > spindle. Cytoplasm > cytoskeleton > spindle pole. Distributed throughout the cell during interphase, but during mitosis becomes dramatically localized to the spindle poles and the spindle microtubules.

Validation Images



Immunofluorescence - Anti-Calmodulin 3 Rabbit mAb [68P49S38]
Sample: HeLa cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R015214 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).



Western Blot - Anti-Calmodulin 3 Rabbit mAb [68P49S38]
All lanes: R015214 at 1:8,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: 293T (Human embryonic kidney cell) whole cell lysates
Lane 5: K562 (Human chronic myeloid leukemia cell) whole cell lysates
Lane 6: U87 (Human malignant glioblastoma epithelial cells) whole cell lysates
Lane 7: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates
Lane 8: Mouse heart whole tissue lysates
Lane 9: Mouse liver whole tissue lysates
Lane 10: Mouse brain whole tissue lysates
Lane 11: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates
Lane 12: Rat muscle whole tissue lysates
Lane 13: Rat brain whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 17 kDa
Observed band size: 17 kDa
Developed using the ECL technique (Cat. No. SQ201).