

Recombinant Calmodulin 1/2/3 Monoclonal Antibody

catalog number: AN301731L

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

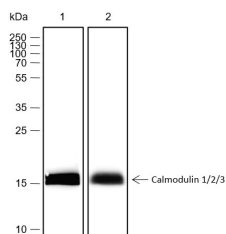
Reactivity	Human;Rat;Mouse
Immunogen	Recombinant human Calmodulin 1/2/3 fragment
Host	Rabbit
Isotype	IgG, κ
Clone	C131353
Purification	Protein A purified
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications

Recommended Dilution

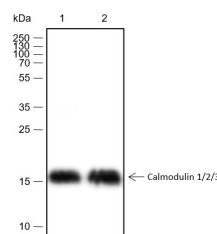
WB	1:1000-1:5000
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Data



Western Blot with Calmodulin 1/2/3 Monoclonal Antibody at dilution of 1:1000. Lane 1: HeLa, Lane 2: NIH/3T3

Observed-MW:17 kDa
Calculated-MW:17 kDa



Western Blot with Calmodulin 1/2/3 Monoclonal Antibody at dilution of 1:5000. Lane 1: Mouse brain, Lane 2: Rat brain

Observed-MW:17 kDa
Calculated-MW:17 kDa

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	Ice bag

Background

Calmodulin mediates the control of a large number of enzymes, ion channels, aquaporins and other proteins through calcium-binding. Calmodulin (CaM) is a ubiquitously expressed Ca²⁺ binding protein best known for its ability to activate CaM-dependent kinases in a variety of cells. It was initially identified in its role as an activator of cAMP PDE. In fact, calmodulin was first known as the calcium-dependent regulator protein of PDE. Calmodulin is involved, directly and indirectly, in modulation of several ion channels, including Na⁺, K⁺, L-type Ca²⁺, and RYR2 channels. The main binding partner of calmodulin in cardiac cells is RyR2, which regulates Ca²⁺ release from the sarcoplasmic reticulum. Acting as an intracellular Ca²⁺ sensor, Ca²⁺-saturated calmodulin binds RYR2 to inhibit Ca²⁺ release by stabilizing the RyR2 channel closed state.

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