

CALM3

Reactivity: Human Mouse Rat

Tested applications: WB IHC

Recommended Dilution: WB 1:500 - 1:2000 IHC 1:50 - 1:200

Calculated MW: 17kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant protein of human CALM3

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

di

Synonym:

CALM3;PHKD;PHKD3 ;

Catalog #: A1161

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 808

Isotype: IgG

Swiss Prot: P62158

Purity: Affinity purification

For research use only.

Background:

Calmodulin is a ubiquitously expressed small protein mediating many cellular effects such as short-term and long-term memory, nerve growth, inflammation, apoptosis, muscle contraction and intracellular movement (1). Upon binding of four Ca²⁺ ions, calmodulin undergoes conformational changes, allowing this complex to bind to and activate many enzymes including protein kinases, protein phosphatases, ion channels, Ca²⁺ pumps, nitric oxide synthase, inositol triphosphate kinase, and cyclic nucleotide phosphodiesterase (2,3). Since calmodulin binds Ca²⁺ in a cooperative fashion, small changes in cytosolic Ca²⁺ levels lead to large changes in the level of active calmodulin and its target proteins (4).

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