

## 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:**

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**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 Ca<sup>2+</sup> ions, calmodulin undergoes conformational changes, allowing this complex to bind to and activate many enzymes including protein kinases, protein phosphatases, ion channels, Ca<sup>2+</sup> pumps, nitric oxide synthase, inositol triphosphate kinase, and cyclic nucleotide phosphodiesterase (2,3). Since calmodulin binds Ca<sup>2+</sup> in a cooperative fashion, small changes in cytosolic Ca<sup>2+</sup> levels lead to large changes in the level of active calmodulin and its target proteins (4).

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