



## Product Information Sheet

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### Monoclonal Anti-Calmodulin

**Catalogue No.** MA1010

**Lot No.** 6D4

**Clone:** CM-16

**Ig type:** mouse IgG1

**Size:** 100µg/vial

**Specificity**

Human, chicken, rat.

No cross reactivity with other proteins.

**Recommended application**

*Western blot*

**Immunogen**

Preparation of purified calmodulin from *Dictyostelium discoideum* conjugated to KLH.

**Purification**

Purified by the goat anti-mouse IgG affinity chromatography.

**Application**

*Western blot*

At 0.5µg/ml with the appropriate system to detect calmodulin in cells and tissues.

*Other applications have not been tested.*

*Optimal dilutions should be determined by end user.*

**Formulation**

Lyophilized from 1.2% sodium acetate, with 2mg BSA and 0.01mg NaN<sub>3</sub> as preservative.

**Reconstitution**

1.2% sodium acetate or neutral PBS. If 1ml of PBS is used, the antibody concentration will be 100µg/ml.

**Storage**

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

To reorder contact us at:

**Antagene, Inc.**

**Toll Free: 1(866)964-2589**

**email: [Info@antageneinc.com](mailto:Info@antageneinc.com)**

### BACKGROUND

Calmodulin is the archetype of the family of calcium-modulated proteins of which nearly 20 members have been found. Calmodulin contains 149 amino acids and has 4 calcium-binding domains. Its functions include roles in growth and the cell cycle as well as in signal transduction and the synthesis and release of neurotransmitters. Three calmodulin genes (CALM1, CALM2, and CALM3) map to chromosomes 14q24-q31, 2p21.1-p21.3, and 19q13.2-q13.3, respectively.

### REFERENCE

**FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC AND CLINICAL USE.**

Berchtold, M. W.; Egli, R.; Rhyner, J. A.; Hameister, H.; Strehler, E. E. : Localization of the human bona fide calmodulin genes CALM1, CALM2, and CALM3 to chromosomes 14q24-q31, 2p21.1-p21.3, and 19q13.2-q13.3. *Genomics* 16: 461-465, 1993.