

Anti-Calmodulin Antibody (Monoclonal, 6D4)

Catalog # ABO10405

Product Information

Application	WB
Primary Accession	P62161
Host	Mouse
Isotype	Mouse IgG1
Reactivity	Rat
Clonality	Monoclonal
Format	Lyophilized
Description	Mouse IgG monoclonal antibody for Calmodulin, calmodulin 1; calmodulin 2; calmodulin 3 (CALM1; CALM2; CALM3) detection. Tested with WB in chicken;rat. No cross reactivity with other proteins.
Reconstitution	Add 1ml of PBS buffer will yield a concentration of 100ug/ml.

Additional Information

Other Names	Calmodulin, CaM, Calm1, Calm, Cam, Cam1
Calculated MW	16838 Da
Application Details	Western blot, 0.5 µg/ml, Chicken, rat
Subcellular Localization	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. .
Protein Name	Calmodulin
Contents	Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN ₃ as preservative.
Clone Names	6D4
Immunogen	Preparation of purified calmodulin from Dictyostelium discoideum conjugated to KLH.
Purification	Ascites
Cross Reactivity	No cross reactivity with other proteins
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 a longer time.Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the calmodulin family.

Protein Information

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.

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