



Product Information Sheet

Monoclonal Anti-Ca²⁺ ATPase (Sepharose Bead Conjugate)

Catalogue No. MA1006-S

Immunogen

Human erythrocyte Ca²⁺-ATPase.

Lot No. 09B13

Purification

Purified by the goat anti-mouse IgG affinity chromatography.

Clone: CAP-6

Ig type: mouse IgG2a

Formulation

50% slurry in PBS pH 7.2 with 0.01mg NaN₃ preservative.

Size: 200µl

Storage

Store at 4°C for frequent use.

Specificity

Human, rat, rabbit, chicken.

No cross reactivity with other proteins.

Description:

This Antagene antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated sepharose beads. It is useful for immunoprecipitation assays.

Recommended application

Immunoprecipitation(IP)

BACKGROUND

The Ca(2+)-ATPases are a family of plasma membrane pumps encoded by at least 4 genes: ATP2B1 on chromosome 12q21; ATP2B2; ATP2B3 on Xq28; and ATP2B4 on 1q25. The proteins share 84% amino acid sequence identity and 76% nucleic acid sequence homology. The function of calcium-transporting ATPase found in different membranes is to lower cytoplasmic Ca(2+) concentration by pumping Ca(2+) to luminal or extracellular spaces. Mutations in a plasma membrane Ca(2+)-ATPase gene cause deafness in deafwaddler mice.

REFERENCE

Street, V. A.; McKee-Johnson, J. W.; Fonseca, R. C.; Tempel, B. L.; Noben-Trauth, K. : Mutations in a plasma membrane Ca(2+)-ATPase gene cause deafness in deafwaddler mice. *Nature Genet.* 19: 390-394, 1998.

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Contact: Antagene, Inc. | Tel: 1 (866) 964-2589 | Fax: 1 (888) 225-1868 | Email: Info@antageneinc.com