



Product Information Sheet

Monoclonal Anti-Calceurin alpha

Catalogue No. MA1008

Immunogen

Bovine brain calcineurin.

Lot No. 08A12

Purification

Purified by the goat anti-mouse IgG affinity chromatography.

Clone: CC-6

Ig type: mouse IgG1

Application

Western blot

Size: 100µg/vial

At 0.25-0.5µg/ml with the appropriate system to detect calcineurin alpha in cells and tissues.

Specificity

Human, rat.

Immunohistochemistry(P)

No cross reactivity with other proteins.

At 0.5-1µg/ml to detect calcineurin alpha in formalin fixed and paraffin embedded tissues.

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Recommended application

Western blot

Immunohistochemistry(P)

Formulation

Lyophilized from 1.2% sodium acetate, with 2mg BSA and 0.01mg NaN₃ 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.

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BACKGROUND

Calcineurin, the Ca^{2+} /calmodulin-regulated protein phosphatase, first detected in skeletal muscle and brain, has been found in all cells from yeast to mammals. Calcineurin A alpha (PPP3CA), is located on human chromosomes 4, Chromosomal mapping of the human genes for the calmodulin-dependent protein phosphatase (calcineurin) catalytic subunit. Calcineurin regulates bone formation by the osteoblast.

REFERENCE

1. Giri, P.; Higuchi, S.; Kincaid, R. L. : Chromosomal mapping of the human genes for the calmodulin-dependent protein phosphatase (calcineurin) catalytic subunit. *Biochem. Biophys. Res. Commun.* 181: 252-258, 1991.
2. Sun, L.; Blair, H. C.; Peng, Y.; Zaidi, N.; Adebajo, O. A.; Wu, X. B.; Wu, X. Y.; Iqbal, J.; Epstein, S.; Abe, E.; Moonga, B. S.; Zaidi, M. : Calcineurin regulates bone formation by the osteoblast. *Proc. Nat. Acad. Sci.* 102: 17130-17135, 2005.
3. Wang, M. G.; Yi, H.; Guerini, D.; Klee, C. B.; McBride, O. W. : Calcineurin A alpha (PPP3CA), calcineurin A beta (PPP3CB) and calcineurin B (PPP3R1) are located on human chromosomes 4, 10q21-q22 and 2p16-p15 respectively. *Cytogenet. Cell Genet.* 72: 236-241, 1996.