Product Information Sheet

Monoclonal Anti-α-Actinin

Catalogue No. MA1104

Lot No. 08A12

Clone: SA-20

Ig type: mouse IgG1

Size:100μg/vial

Specificity

Human, mouse, rat.

No cross reactivity with other proteins.

Recommended application

Western blot

Immunohistochemistry(P)

Immunohistochemistry(F)

To reorder contact us at:

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Immunogen

Rabbit skeletal α-actinin.

Purification

Purified by the goat anti-mouse IgG affinity chromatography.

Application

Western blot

At 3.5μg/ml with the appropriate system to detect α-actinin in cells and tissues.

Immunohistochemistry(P)

At 3.5-7μg/ml to detect α-actinin in formalin fixed and paraffin embedded tissues. Boiling the sections is required.

Immunohistochemistry(F)

At 3.5-7μg/ml to detect α-actinin in formalin or acetone fixed 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_3 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.

BACKGROUND

Alpha-actinin was initially isolated from rabbit skeletal muscle as a factor that induces the gelation of F-actin and promotes the superprecipitation of actomyosin. Alpha actinins are actin-binding proteins that carry out different purposes in different different cell types. In myofibrillar cells, alpha-actinin constitutes a major component of Z-discs in striated muscle and of the functionally analogous dense bodies and dense plaques in smooth muscle. alpha-actinin (alpha A) shares structural homology with spectrin and dystrophin.

REFERENCE

Youssoufian, H.; McAfee, M.; Kwiatkowski, D. J. : Cloning and chromosomal localization of the human cytoskeletal alpha-actinin gene reveals linkage to the beta-spectrin gene. *Am. J. Hum. Genet.* 47: 62-72, 1990.