Antagene Inc.
Your Source of Antibody

Product Information Sheet

Monoclonal Anti-Spectrin(α and β)

Catalogue No. MA1090

Lot No. 08A12

Clone: Spe 1/2

Ig type: mouse IgG1

Size: 100μg/vial

Specificity

Human.

No cross reactivity with other proteins.

Recommended application

Western blot

To reorder contact us at:

Antagene, Inc.

Toll Free: 1(866)964-2589

email: Info@antageneinc.com

Immunogen

Human erythrocyte spectrin.

Purification

Purified by the goat anti-mouse IgG affinity chromatography.

Application

Western blot

At 2-4μg/ml with the appropriate system to detect spectrin 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_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

Spectrin, the predominant component of the membrane skeleton of the red cell, is essential in determining the properties of the membrane including its shape and deformability. It consists of 2 nonidentical subunits, alpha and beta. Spectrin is present in the red cell membrane in a tetrameric or possibly higher polymeric form through head-to-head self-association of heterodimers that are linked by actin polymers and protein 4.1 to form a 2-dimensional network. Non-erythroid spectrin gene is mapped to human chromosome 2.Spectrin mutations cause spinocerebellar ataxia type 5.

REFERENCE

1. Watkins, P. C.; Eddy, R.; Forget, B. G.; Chang, J. G.; Rochelle, R.; Shows, T. B. : Assignment of a non-erythroid spectrin gene to human chromosome 2. (Abstract) *Am. J. Hum. Genet.* 43: A161, 1988.
2. Ikeda, Y.; Dick, K. A.; Weatherspoon, M. R.; Gincel, D.; Armbrust, K. R.; Dalton, J. C.; Stevanin, G.; Durr, A.; Zuhlke, C.; Burk, K.; Clark, H. B.; Brice, A.; Rothstein, J. D.; Schut, L. J.; Day, J. W.; Ranum, L. P. W. : Spectrin mutations cause spinocerebellar ataxia type 5. *Nature Genet.* 38: 184-190, 2006.