



Product Information Sheet

Monoclonal Anti-Spectrin(α and β) - Magnetic Bead Conjugate

Catalogue No. MA1090-M

Immunogen

Human erythrocyte spectrin.

Lot No. 08A12

Purification

Purified by the goat anti-mouse IgG affinity chromatography.

Clone: Spe 1/2

Ig type: mouse IgG1

Formulation

Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN₃.

Size: 200 μ l

Specificity

Human.

No cross reactivity with other proteins.

Storage

Store at 4°C for frequent use.

Recommended application

Immunoprecipitation(IP)

Description

This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified beads. It is useful for immunoprecipitation.

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.

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