



## Product Information Sheet

### Monoclonal Anti-Spectrin( $\alpha$ and $\beta$ ) - Magnetic Bead Conjugate

**Catalogue No.** MA1090-M

**Immunogen**

Human erythrocyte spectrin.

**Lot No.** 08A12

**Purification**

**Clone:** Spe 1/2

Purified by the goat anti-mouse IgG affinity chromatography.

**Ig type:** mouse IgG1

**Formulation**

**Size:** 200 $\mu$ l

Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN<sub>3</sub>.

**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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