



Product Information Sheet

Monoclonal Anti-Growth Associated Protein-43, *GAP43* – conjugated to Magnetic Beads

Catalogue No. MA1042-M

Immunogen

GAP-43 from neonatal rat forebrain membranes.

Lot No. 08A12

Purification

Clone: GAP-8A12

Purified by the goat anti-mouse IgG affinity chromatography.

Ig type: mouse IgG2a

Formulation

Size: 200µl

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

Specificity

Human, mouse, rat, chicken, snake
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

GAP43 is expressed by developing and regenerating neurons, and to a lesser extent, reactive glial cells. It is used widely to specifically label injured neurons and to score neuronal regeneration. GAP43 is also a neuronal growth cone protein thought to be involved in pathfinding. GAP43 is considered to be a crucial component of an effective regenerative response in the nervous system.

REFERENCE

- 1.Kosik, K. S.; Orecchio, L. D.; Bruns, G. A. P.; Benowitz, L. I.; MacDonald, G. P.; Cox, D. R.; Neve, R. L. : Human GAP-43: its deduced amino acid sequence and chromosomal localization in mouse and human. *Neuron* 1: 127-132, 1988.
- 2.Strittmatter, S. M.; Fankhauser, C.; Huang, P. L.; Mashimo, H.; Fishman, M. C. : Neuronal pathfinding is abnormal in mice lacking the neuronal growth cone protein GAP-43. *Cell* 80: 445-452, 1995.

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