



Product Information Sheet

Monoclonal Anti-Growth Associated Protein-43, GAP43

Catalogue No. MA1042 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 Application

Western blot

Size: 100µg/vial At 0.5-1µg/ml with the appropriate system to detect GAP43 in cells

and tissues.

embedded tissues.

Specificity *Immunohistochemistry(P)*

Human, mouse, rat, chicken, snake At 1-2µg/ml to detect GAP43 in formalin fixed and paraffin

No cross reactivity with other

140 Closs reactivity with other

proteins. Immunohistochemistry(F)

At 1-2µg/ml to detect GAP43 in formalin or acetone fixed tissues.

Recommended application

Other applications have not been tested.

Western blot Optimal dilutions should be determined by end user.

Immunohistochemistry(P)

Immunohistochemistry(F)

Formulation

Lyophilized from 1.2% sodium acetate, with 2mg BSA and 0.01mg

NaN₃ 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.

To reorder contact us at:

Antagene, Inc.

Toll Free: 1(866)964-2589 Relative detection systems

email: Info@antageneinc.com Boster provides a series of assays reacted with primary antibodies.

Antibody can be supported by SA1021 in IH; supported by

chemiluminescence kit EK1001 in WB.

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.