

Rabbit polyclonal antibody to human Growth-associated protein 43 (216-238): Affinity purified

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| Catalogue No.: | R-1055-100 |
| Description: | THIS PRODUCT HAS BEEN SUPERCEDED. PLEASE REFER TO THE "REPLACED BY" FIELD BELOW TO LOCATE THE CURRENT BIOSENSIS PRODUCT TO MEET YOUR RESEARCH NEEDS. Growth-associated protein 43 (GAP-43) is expressed by developing and regenerating neurons, and to a lesser extent, reactive glial cells. It is also a major component of neuronal growth cones. GAP-43 binds calmodulin with a greater affinity in the absence of Ca(2+) than in its presence. Phosphorylation of GAP-43 by a protein Kinase C is correlated with certain forms of synaptic plasticity. GAP-43 is used to specifically label injured neurons and to score neuronal regeneration. |
| Replaced by: | R-1651-100 |
| Batch No.: | See product label |
| Unit size: | 100 ug |
| Antigen: | A synthetic peptide corresponding to a region (216-238) from human Growth-associated protein 43 (GAP-43). To enhance the immunological response, this peptide was coupled to carrier protein BSA. |
| Other Names: | Neuromodulin; GAP43; PP46; p57; B-50; F1; Axonal membrane protein GAP-43; Growth-associated protein 43; Neural phosphoprotein B-50; |
| Accession: | P17677 NEUM_HUMAN |
| Produced in: | Rabbit |
| Purity: | Affinity purified on antigen column |
| Applications: | Immunohistochemistry (IHC) and Western Blotting (WB). A concentration of 0.1-0.5ug/mL is recommended for WB. Human GAP-43 has a predicted length of 238 residues and MW of 25 kDa. A concentration of 0.5-1ug/mL is recommended to detect the protein in formalin fixed and paraffin embedded tissues. Heat mediated antigen retrieval is recommended. |
| Specificity: | The specificity of this antibody has been confirmed by WB and IHC against the antigen. |
| Cross-reactivity: | Human; rat; predicted to react with mouse; |
| Form: | Lyophilized with 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ added as preservative |
| Reconstitution: | Reconstitute in 100 uL of sterile distilled water to achieve an antibody concentration of 1 mg/mL. Centrifuge to remove any insoluble material. |
| Storage: | At least 12 months after purchase at 2-8C (lyophilized formulations). After reconstitution, aliquot and store at -20C for a higher stability. Avoid freeze-thaw cycles |
| Expiry Date: | 12 months after purchase |

FOR RESEARCH USE ONLY
