



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

<b>Catalogue No.:</b>	R-1055-100
<b>Description:</b>	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.
<b>Batch No.:</b>	See product label
<b>Unit size:</b>	100 ug
<b>Antigen:</b>	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.
<b>Other Names:</b>	Neuromodulin; GAP43; PP46; p57; B-50; F1; Axonal membrane protein GAP-43; Growth-associated protein 43; Neural phosphoprotein B-50;
<b>Accession:</b>	P17677 NEUM_HUMAN
<b>Produced in:</b>	Rabbit
<b>Purity:</b>	Affinity purified on antigen column
<b>Applications:</b>	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.
<b>Specificity:</b>	The specificity of this antibody has been confirmed by WB and IHC against the antigen.
<b>Cross-reactivity:</b>	Human; rat; predicted to react with mouse;
<b>Form:</b>	Lyophilized with 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3 added as preservative
<b>Reconstitution:</b>	Reconstitute in 100 uL of sterile distilled water to achieve an antibody concentration of 1 mg/mL. Centrifuge to remove any insoluble material.
<b>Storage:</b>	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
<b>Expiry Date:</b>	12 months after purchase

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