

## GAP-43 Antibody

**Subcategory:** Rabbit Polyclonal Antibody

**Cat. No.:** 250658

**Unit:** 0.1 mg

**Description:**

GAP-43 (Growth associated protein-43, neuromodulin) is a cytoplasmic axonal membrane protein that is involved in the neuronal outgrowth and synaptic plasticity of developing and regenerating neurons. Palmitoylated GAP-43 attaches to the membrane via lipid rafts, while the unmodified form is a component of the centrosome. GAP-43 binds to calmodulin in the absence of  $Ca^{++}$  and functions as a substrate for PKC in the nerve growth factor (NGF) signaling pathway. Gap-43 functions as an adapter protein, binding and interacting with several molecules including PKC, PIP2, actin, calmodulin, spectrin, palmitate, synaptophysin, amyloid, and tau. A lack of GAP-43 or phosphorylation leads to severe neuronal developmental or learning disfunction.

**Isotype:** Rabbit Ig

**Applications:** E, IHC, WB

**Species Reactivity:** B, Ck, H, M, R

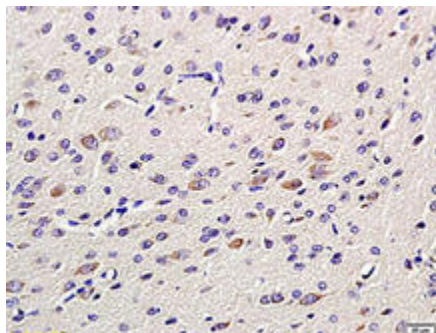
**Format:** Each vial contains 0.1 mg IgG in 0.1 ml (1 mg/ml) of PBS pH7.4 with 0.09% sodium azide. Antibody was purified by Protein-G affinity chromatography.

**Alternate Names:** GAP-43; Growth-associated protein 43; Neuromodulin; Axonal membrane protein GAP-43; PP46; Neural phosphoprotein B-50; GAP43

**Accession No.:** P17677

**Antigen:** KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human GAP-43.

**Application Notes:** E: 1:500-1:1,000; WB: 1:100-1:500; IHC: 1:100-1:500



**GAP-43 staining in rat brain. Formalin-fixed paraffin-embedded rat brain tissue is stained with GAP-43 Antibody (Cat. No. 250658) used at 1:200 dilution.**

**Storage:** Store at -20°C. Minimize freeze-thaw cycles. Product is guaranteed one year from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.