

Product datasheet for **AP32844PU-N**

GAP43 (C-term) Chicken Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Quality Control: Quality assurance analysis was performed using Immunohistochemistry (at 1/1000 dilution) using Fluorescein Conjugated Affinity-purified Goat anti-Chicken IgY antibody (Cat.-No AP31795FCN, 1/1000 dilution) as a secondary antibody. <i>Recommended Dilutions:</i> 1/1000-1/2000 for Immunohistochemistry and Immunocytochemistry using 2% paraformaldehyde-fixed tissues or cells and 1/2000-1/5000 for western blots.
Reactivity:	Mouse
Host:	Chicken
Isotype:	IgY
Clonality:	Polyclonal
Immunogen:	Chickens were immunized with a synthetic peptide corresponding to the C-terminal region of Mouse GAP-43 coupled to keyhole limpet hemocyanin. Production: After repeated injections, immune eggs were collected, the IgY fractions were purified from the yolks, and the IgY concentration adjusted to 20 mg/ml. This preparation was then diluted 1/10 with PBS containing BSA as a carrier. Finally, the antibody preparation was filter-sterilized.
Specificity:	Specific for the ~43k GAP-43 protein.
Formulation:	PBS, pH 7.2 State: Aff - Purified State: Liquid purified IgY fraction Stabilizer: 0.5% BSA Preservative: 0.02% Sodium Azide
Concentration:	lot specific
Purification:	Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	growth associated protein 43



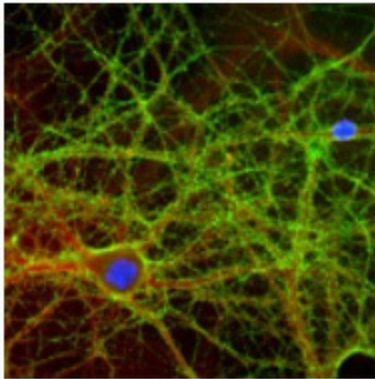
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Background: GAP-43 is thought to have an important role in development and plasticity because it is expressed at high levels in neuronal growth cones during development and during axonal regeneration (Benowitz and Routtenberg, 1997). There is also evidence from knockout animals that GAP-43 serves to amplify pathfinding signals from the growth cone (Strittmatter et al., 1995). GAP-43 is thought to mediate at least some of these effects via interaction with actin. Importantly, phosphorylation at Ser41 by protein kinase C modulates the interaction of GAP-43 with actin (He et al., 1997) and may also affect neurotransmitter release during forms of plasticity like LTP (Hulo et al., 2002).

Synonyms: Neuromodulin

Product images:



Grified from the neonatal Mouse brain (green staining). Red staining corresponds to a Rabbit anti-Alpha III Spectrin. Blue staining corresponds to the Hoechst nuclear stain.