

Product datasheet for **AP26435SU-N**

Gap43 (C-term) Chicken Polyclonal Antibody

Product data:

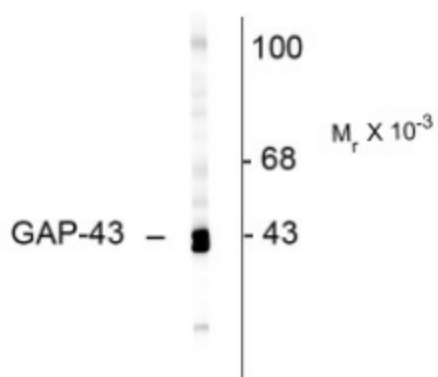
Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	Western blot: 1/2000. Immunofluorescence: 1/500.
Reactivity:	Human, Mouse, Rat
Host:	Chicken
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to amino acid residues from the C-terminal region of the rat GAP43 sequence
Specificity:	This antibody detects GAP43.
Formulation:	PBS State: Ig Fraction State: Liquid IgY fraction Preservative: 10 mM NaN ₃
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	growth associated protein 43
Database Link:	Entrez Gene 29423 Rat P07936
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 Ser 41 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).



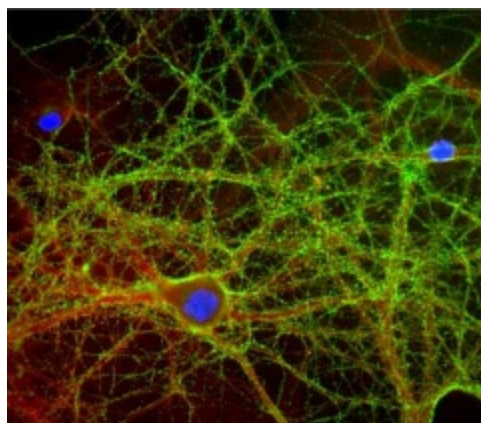
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Synonyms: Neuromodulin

Product images:



Western blot of rat cortex lysate showing specific immunolabeling of the ~43k GAP43 protein.



Immunochemical staining of mixed neuron/glia cultures showing GAP43 (green) labeling of numerous axonal and dendritic profiles and anti-alpha II spectrin (red).