



GAP-43 Polyclonal Antibody

Catalog No	YP-Ab-12727
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	GAP43
Immunogen	The antiserum was produced against synthesized peptide derived from human GAP43. AA range:8-57
Specificity	GAP-43 Polyclonal Antibody detects endogenous levels of GAP-43 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	IHC: 1/100 - 1/300. ELISA: 1/20000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Axonal membrane protein GAP 43;Axonal membrane protein GAP-43;B 50; growth associated protein 43;Growth-associated protein 43;GAP-43;GAP43; Neuromodulin;Neural phosphoprotein B-50;pp46
Observed Band	43kD
Calculated Molecular Weight	43kD
Cell Pathway	Cell membrane ; Peripheral membrane protein ; Cytoplasmic side . Cell projection, growth cone membrane ; Peripheral membrane protein ; Cytoplasmic side . Cell junction, synapse . Cell projection, filopodium membrane ; Peripheral membrane protein . Perikaryon . Cell projection, dendrite . Cell projection, axon . Cytoplasm . Cytoplasmic surface of growth cone and synaptic plasma membranes. .
Tissue Specificity	Alzheimer cortex,Brain,Subthalamic nucleus,
Function	function:This protein is associated with nerve growth. It is a major component of the motile "growth cones" that form the tips of elongating axons.,online information:Gap-43 entry,PTM:Phosphorylation of this protein by a protein kinase C is specifically correlated with certain forms of synaptic plasticity., similarity:Belongs to the neuromodulin family.,similarity:Contains 1 IQ domain.,



subcellular location: Cytoplasmic surface of growth cone and synaptic plasma membranes., subunit: Binds calmodulin with a greater affinity in the absence of Ca^{2+} than in its presence.,

Background

The protein encoded by this gene has been termed a 'growth' or 'plasticity' protein because it is expressed at high levels in neuronal growth cones during development and axonal regeneration. This protein is considered a crucial component of an effective regenerative response in the nervous system. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008],

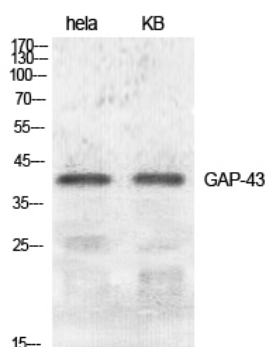
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using GAP-43 Polyclonal Antibody diluted at 1:500



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using GAP43 Antibody. The picture on the right is blocked with the synthesized peptide.

