

Anti-GAP43 Antibody

Catalog # ABO10526

Product Information

Application	WB, IHC-P
Primary Accession	P17677
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Neuromodulin(GAP43) detection. Tested with WB, IHC-P in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	2596
Other Names	Neuromodulin, Axonal membrane protein GAP-43, Growth-associated protein 43, Neural phosphoprotein B-50, pp46, GAP43
Calculated MW	24803
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, Rat, Mouse, By Heat Western blot, 0.1-0.5 μ g/ml, Human, Mouse, Rat
Subcellular Localization	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 . Cytoplasmic surface of growth cone and synaptic plasma membranes.
Source	Eukaryota
Protein Name	Neuromodulin
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human GAP43(216-238aa KPESARQDEGKEEPEADQEHA), different from the related mouse and rat sequences by one amino acid.
Purification	Immunogen affinity purified.

Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After r ° Constitution, at 4 °C for one month. It ° Can also be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the neuromodulin family.

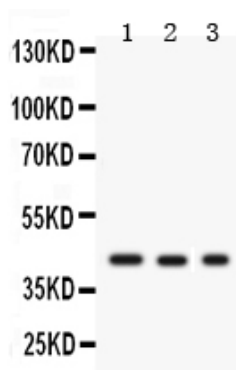
Protein Information

Name	GAP43
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. Plays a role in axonal and dendritic filopodia induction.
Cellular Location	Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cell projection, growth cone membrane; Peripheral membrane protein; Cytoplasmic side. Synapse Cell projection, filopodium membrane; Peripheral membrane protein. Perikaryon {ECO:0000250 UniProtKB:P07936}. Cell projection, dendrite {ECO:0000250 UniProtKB:P07936}. Cell projection, axon {ECO:0000250 UniProtKB:P07936}. Cytoplasm {ECO:0000250 UniProtKB:P07936}. Note=Cytoplasmic surface of growth cone and synaptic plasma membranes.

Background

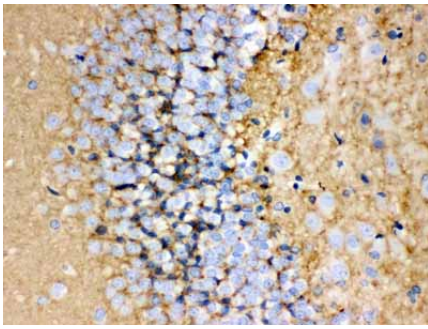
Growth Associated Protein-43(GAP-43), also known as nerve growth-related growth peptide GAP43, shares a high degree of homology between the sequence of the human gene and the rat gene. GAP-43 is considered a crucial component of an effective regenerative response in the nervous system. Somatic cell hybrids demonstrate localization of the GAP-43 gene to human chromosome 3 and to mouse chromosome 16. GAP-43 has been termed a growth" or "plasticity" protein because it is expressed at high levels in neuronal growth cones during development and during axonal regeneration. GAP-43 regulates growth of axons and modulates the formation of new connections."

Images

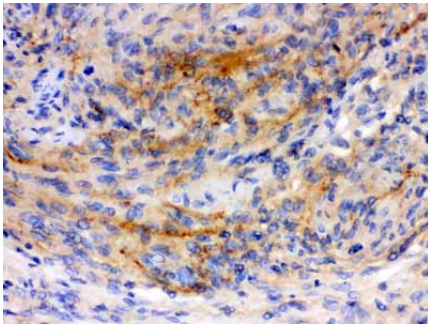
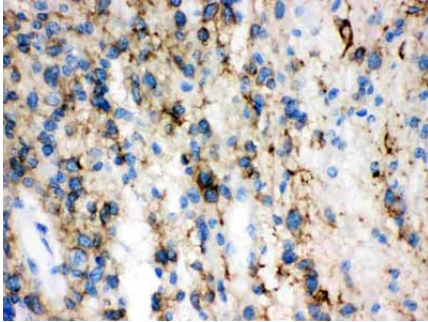


Anti-GAP43 antibody, ABO10526, Western blotting
All lanes: Anti GAP43 (ABO10526) at 0.5ug/ml
Lane 1: U87 Whole Cell Lysate at 40ug
Lane 2: Rat Brain Tissue Lysate at 50ug
Lane 3: Mouse Brain Tissue Lysate at 50ug
Predicted bind size: 43KD
Observed bind size: 43KD

Anti-GAP43 antibody, ABO10526, IHC(P)
IHC(P): Rat Brain Tissue



Anti-GAP43 antibody, ABO10526, IHC(P)IHC(P): Human Glioma Tissue



Anti-GAP43 antibody, ABO10526, IHC(P)IHC(P): Human Meningeoma Tissue

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.