

Basic Information

Product Name	Anti-GAP43 Antibody
Gene Name	GAP43
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human GAP43, different from the related mouse and rat sequences by one amino acid.
Concentration	500 ug/ml
Observed MW	43 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:20-100 (Boiling the paraffin sections in 10mM citrate buffer, pH6.0, or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt, -20°C as supplied.

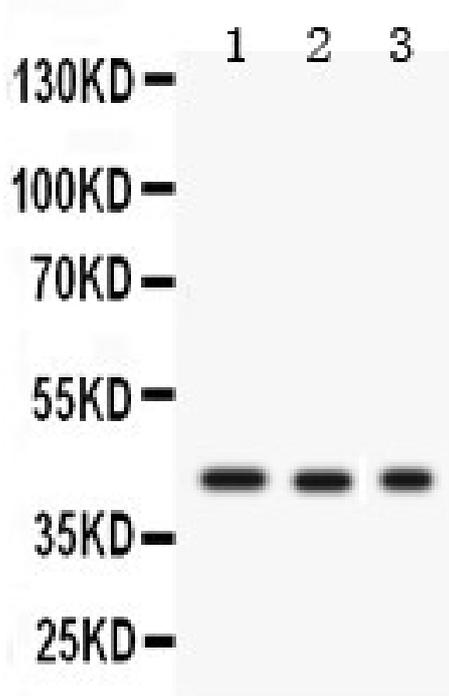
Background Information

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.

Reference

Anti-GAP43 Antibody被引用在2文献中。

Selected Validation Data



Western blot analysis of GAP43 using anti-GAP43 antibody (PA1037). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: U87 whole cell lysates at 40ug,

Lane 2: Rat Brain tissue lysates at 50ug,

Lane 3: Mouse Brain tissue lysates at 50ug.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-GAP43 antigen

affinity purified polyclonal antibody (PA1037) at a dilution of 1:1000

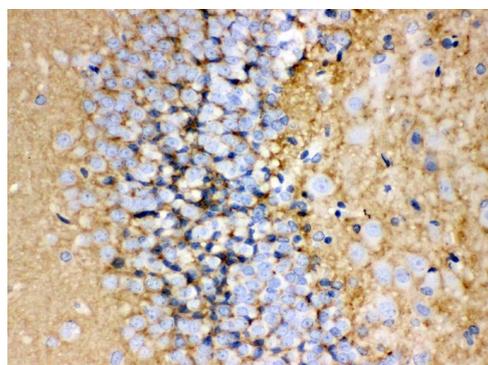
and probed with a goat anti-rabbit IgG-HRP secondary antibody

(Catalog # BA1054). The signal is developed using ECL Plus Western

Blotting Substrate (Catalog # AR1197). A specific band was detected

for GAP43 at approximately 43 kDa. The expected band size for

GAP43 is at 25 kDa.



IHC analysis of GAP43 using anti-GAP43 antibody (PA1037).

GAP43 was detected in a paraffin-embedded section of rat brain

tissue. The tissue section was incubated with rabbit anti-GAP43

Antibody (PA1037) at a dilution of 1:200 and developed using HRP

Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002)

with DAB (Catalog # AR1027) as the chromogen.