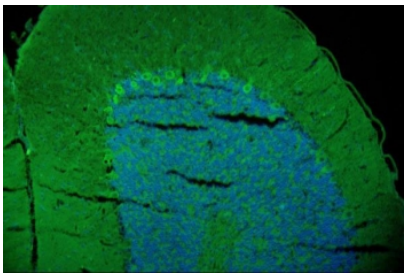
GAP43 Antibody (RQ5949)

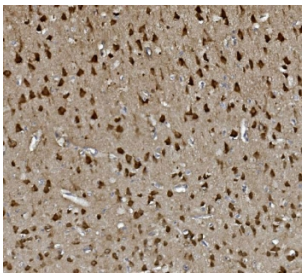
Catalog No.	Formulation	Size
RQ5949	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

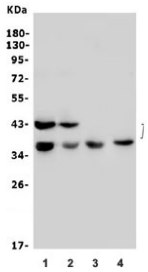
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P17677
Applications	Western blot: 0.5-1ug/ml Flow cytometry: 1-3ug/million cells Immunohistochemistry (FFPE): 1-2ug/ml Immunofluorescence: 2-4ug/ml
Limitations	This GAP43 antibody is available for research use only.



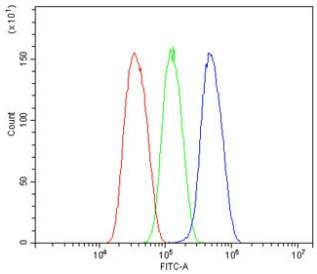
Immunofluorescent staining of FFPE rat brain with GAP43 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA for 20 min.



IHC staining of FFPE rat brain with GAP43 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) rat brain, 2) mouse brain, 3) human U-87 MG and 4) mouse Neuro-2a lysate with GAP43 antibody. Predicted molecular weight ~43 kDa with possible 38 kDa band (Ref 1).



Flow cytometry testing of human HepG2 cells with GAP43 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= GAP43 antibody.

Description

Growth Associated Protein 43 (GAP43) is a protein encoded by the GAP43 gene in humans. It is mapped to 3q13.31. 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.

Application Notes

Optimal dilution of the GAP43 antibody should be determined by the researcher.

Immunogen

Amino acids IKPEDKAHKAATKIQASFRGH from the human protein were used as the immunogen for the GAP43 antibody.

Storage

After reconstitution, the GAP43 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

References (1)

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