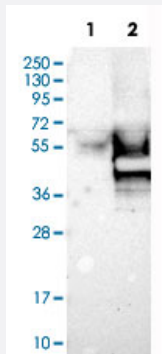


# GAP43 polyclonal antibody

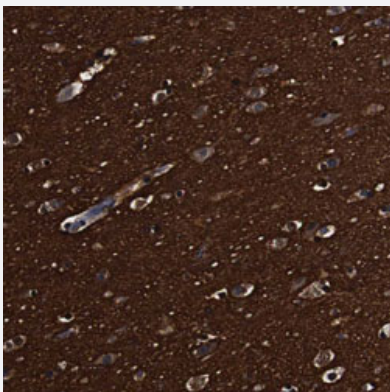
Catalog # PAB31439      Size 100 uL

## Applications



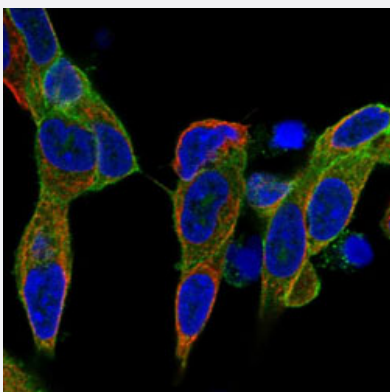
### Western Blot (Transfected lysate)

Western Blot analysis of Lane 1: negative control (vector only transfected HEK293T cell lysate) and Lane 2: over-expression lysate (co-expressed with a C-terminal myc-DDK tag in mammalian HEK293T cells) with GAP43 polyclonal antibody (Cat # PAB31439).



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human cerebral cortex with GAP43 polyclonal antibody (Cat # PAB31439) shows distinct neuropil positivity.



### Immunofluorescence

Immunofluorescent staining of SH-SY5Y cells with GAP43 polyclonal antibody (Cat # PAB31439) (Green) shows localization to plasma membrane.

## Specification

<b>Product Description</b>	Rabbit polyclonal antibody raised against partial recombinant human GAP43.
<b>Immunogen</b>	Recombinant protein corresponding to human GAP43.
<b>Sequence</b>	KEEPKQADVPAAVTAAAAATTPAAEDAAAKATAQPPTETGESSQAEENIEAVDETKPKESARQDE
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human
<b>Form</b>	Liquid
<b>Purification</b>	Antigen affinity purification
<b>Isotype</b>	IgG
<b>Recommend Usage</b>	Immunofluorescence (1-4 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:1000-1:2500) Western Blot (1:100-1:250) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide).
<b>Storage Instruction</b>	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot (Transfected lysate)

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## Gene Info — GAP43

**Entrez GeneID** [2596](#)**Protein Accession#** [P17677](#)**Gene Name** GAP43**Gene Alias** B-50, PP46**Gene Description** growth associated protein 43**Omim ID** [162060](#)**Gene Ontology** [Hyperlink](#)

**Gene Summary** 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]

**Other Designations** axonal membrane protein GAP-43|calmodulin-binding protein P-57|nerve growth-related peptide GAP43|neural phosphoprotein B-50|neuromodulin|neuron growth-associated protein 43|protein F1

## Publication Reference

- [Antibody-based profiling of cerebrospinal fluid within multiple sclerosis.](#)

Häggmark A, Bystrom S, Ayoglu B, Qundos U, Uhlen M, Khademi M, Olsson T, Schwenk JM, Nilsson P.  
Proteomics 2013 Aug; 13(15):2256.

Application: ELISA, Human, Cerebrospinal fluid, Plasma

## Disease

- [Tobacco Use Disorder](#)