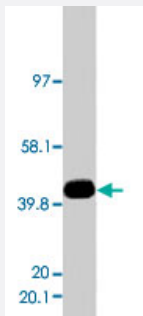


# GAP43 polyclonal antibody

Catalog # PAB7977

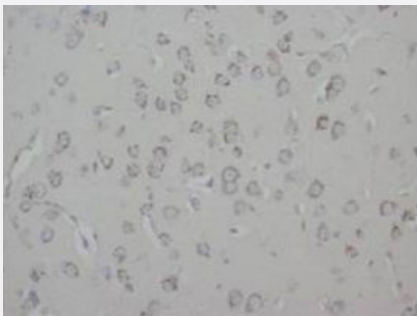
Size 100 ug

## Applications



### Western Blot (Tissue lysate)

Western blot analysis of rat brain tissue lysate. Using GAP43 polyclonal antibody (Cat # PAB7977) .



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

Immunohistochemical analysis of paraffin-embedded rat brain sections using GAP43 polyclonal antibody (Cat # PAB7977) .

## Specification

|                      |   |
|----------------------|---|
| Product Description  | Rabbit polyclonal antibody raised against synthetic peptide of GAP43. |
| Immunogen            | A synthetic peptide corresponding to C-terminus of human GAP43.       |
| Host                 | Rabbit  |
| Theoretical MW (kDa) | 24.8  |
| Reactivity           | Human, Mouse, Rat   |
| Specificity          | Identical to the related rat and mouse sequence.                      |
| Form                 | Lyophilized   |

|                     |   |
|---------------------|---|
| Purification        | Immunoaffinity purification   |
| Isotype             | IgG   |
| Recommend Usage     | Western Blot (1 ug/mL)<br>Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1 ug/mL)<br>The optimal working dilution should be determined by the end user.                            |
| Storage Buffer      | Lyophilized from 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> (5 mg BSA, 0.05 mg sodium azide, 0.05 mg Thimerosal)  |
| Storage Instruction | Store at -20°C on dry atmosphere.<br>After reconstitution with 200 uL of deionized water and concentration will be 500 ug/mL, store at -20°C or lower.<br>Aliquot to avoid repeated freezing and thawing. |
| Note                | This product contains sodium azide and thimerosal: POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.   |

## Applications

- Western Blot (Tissue lysate)

Western blot analysis of rat brain tissue lysate. Using GAP43 polyclonal antibody (Cat # PAB7977) .

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

Immunohistochemical analysis of paraffin-embedded rat brain sections using GAP43 polyclonal antibody (Cat # PAB7977) .

## Gene Info — GAP43

|                  |                              |
|------------------|------------------------------|
| Entrez GeneID    | <a href="#">2596</a>         |
| Gene Name        | GAP43                        |
| Gene Alias       | B-50, PP46                   |
| Gene Description | growth associated protein 43 |
| Omim ID          | <a href="#">162060</a>       |
| Gene Ontology    | <a href="#">Hyperlink</a>    |

**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**

- [Regulation of GAP-43 expression by chronic desipramine treatment in rat cultured hippocampal cells.](#)

Chen B, Wang JF, Sun X, Young LT.

Biological Psychiatry 2003 Mar; 53(6):530.

Application: WB-Ti, Rat, Cortex, Hippocampus

- [Neuronal pathfinding is abnormal in mice lacking the neuronal growth cone protein GAP-43.](#)

Strittmatter SM, Fankhauser C, Huang PL, Mashimo H, Fishman MC.

Cell 1995 Feb; 80(3):445.

Application: IF, WB-Ti, Mouse, Mouse brains, Mouse embryonic stem cells

- [Human GAP-43: its deduced amino acid sequence and chromosomal localization in mouse and human.](#)

Kosik KS, Orecchio LD, Bruns GA, Benowitz LI, MacDonald GP, Cox DR, Neve RL.

Neuron 1988 Apr; 1(2):127.

**Disease**

- [Tobacco Use Disorder](#)