

## ARG40868 anti-GAP43 antibody

Package: 100 µl  
Store at: -20°C

### Summary

|                     |  |
|---------------------|--|
| Product Description | Rabbit Polyclonal antibody recognizes GAP43  |
| Tested Reactivity   | Hu, Ms, Rat  |
| Tested Application  | FACS, ICC/IF, IHC-P, IP, WB  |
| Host                | Rabbit   |
| Clonality           | Polyclonal   |
| Isotype             | IgG  |
| Target Name         | GAP43  |
| Species             | Human  |
| Immunogen           | Synthetic peptide derived from Human GAP43   |
| Conjugation         | Un-conjugated  |
| Alternate Names     | pp46; Growth-associated protein 43; B-50; Neuromodulin; PP46; Axonal membrane protein GAP-43; Neural phosphoprotein B-50 |

### Application Instructions

| Application table | Application      | Dilution   |
|-------------------|------------------|--|
|                   | FACS             | 1:20   |
|                   | ICC/IF           | 1:50 - 1:200   |
|                   | IHC-P            | 1:50 - 1:200   |
|                   | IP               | 1:30   |
|                   | WB               | 1:10000 - 1:50000  |
|                   | Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |

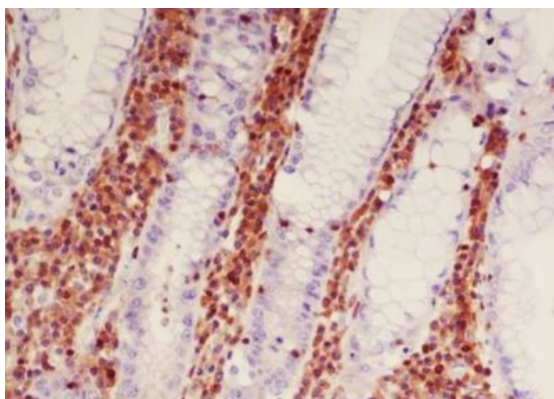
### Properties

|                     |   |
|---------------------|---|
| Form                | Liquid  |
| Purification        | Affinity purified.  |
| Buffer              | PBS (pH 7.4), 150 mM NaCl, 0.02% Sodium azide and 50% Glycerol.   |
| Preservative        | 0.02% Sodium azide  |
| Stabilizer          | 50% Glycerol  |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |

## Bioinformation

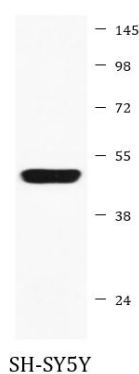
|                       |  |
|-----------------------|--|
| Gene Symbol           | GAP43  |
| Gene Full Name        | growth associated protein 43   |
| Background            | The protein encoded by this gene has been termed a 'growth' or 'plasticity' protein because it is expressed at high levels 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, Jul 2008] |
| 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. [UniProt]   |
| Calculated Mw         | 25 kDa   |
| PTM                   | Phosphorylated at Ser-41 by PHK. Phosphorylation of this protein by a protein kinase C is specifically correlated with certain forms of synaptic plasticity.<br><br>Palmitoylation by ARF6 is essential for plasma membrane association and axonal and dendritic filopodia induction. Deacylated by LYPLA2. [UniProt]  |
| Cellular 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. Note=Cytoplasmic surface of growth cone and synaptic plasma membranes. [UniProt]  |

## Images



ARG40868 anti-GAP43 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human stomach tissue stained with ARG40868 anti-GAP43 antibody.



ARG40868 anti-GAP43 antibody WB image

Western blot: SH-SY5Y cell lysate stained with ARG40868 anti-GAP43 antibody.