

## Rabbit anti-Human GAP-43 Polyclonal Antibody | anti-GAP43 antibody

Anti-GAP-43 Antibody, Rabbit Polyclonal

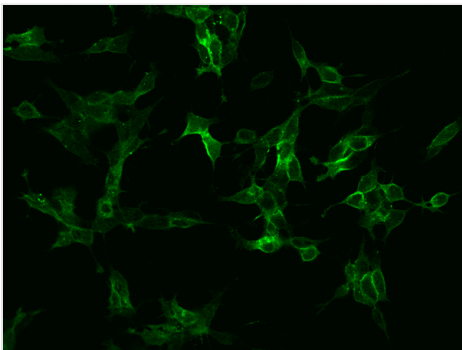
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|-------------------------------|-----------------------|----------------------------|------------------------------------------------------------------|
| CATALOG #<br><b>AAA259448</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Immunocytochemistry, Immunohistochemistry</b> |
|-------------------------------|-----------------------|----------------------------|------------------------------------------------------------------|

### PRODUCT SYNONYMS

GAP-43; Polyclonal Antibody; Anti-GAP-43 Antibody; Rabbit Polyclonal; GAP-43 Antibody; Rabbit PAb; Antigen Affinity Purified; growth associated protein 43; Anti-B-50 Antibody; Anti-PP46 Antibody; anti-GAP43 antibody

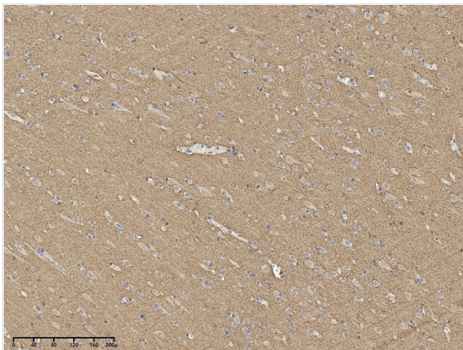
### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Reactivity                                      | Human                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Clonality                                       | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                             |
| Isotype                                         | Rabbit IgG                                                                                                                                                                                                                                                                                                                                                                                                             |
| Specificity                                     | Human GAP-43                                                                                                                                                                                                                                                                                                                                                                                                           |
| Purity/Purification                             | Protein A & Antigen Affinity                                                                                                                                                                                                                                                                                                                                                                                           |
| Form/Format                                     | Liquid; PBS, pH7.0 with 0.03% Proclin300                                                                                                                                                                                                                                                                                                                                                                               |
| Applicable Applications for anti-GAP43 antibody | ICC (Immunocytochemistry), IHC (Immunohistochemistry)                                                                                                                                                                                                                                                                                                                                                                  |
| Immunogen                                       | E coli-derived Human GAP-43 fragment                                                                                                                                                                                                                                                                                                                                                                                   |
| Preparation                                     | Produced in rabbits immunized with E coli-derived Human GAP-43 fragment, and purified by antigen affinity chromatography.                                                                                                                                                                                                                                                                                              |
| Preparation and Storage                         | <p>This antibody can be stored at 2 degree C-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.</p> <p>This antibody is shipped as liquid solution at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.</p> |



IF (Immunofluorescence)

Immunofluorescence staining of GAP43 in SHSY5Y cells. Cells were fixed with 4% PFA, blocked with 10% serum, and incubated with rabbit anti-Human GAP43 polyclonal antibody (dilution ratio 1:100) at 4 degree C overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green). Positive staining was localized to Cell membrane.



IHC (Immunohistochemistry)

Immunochemical staining of human GAP43 in human brain with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.

ADDITIONAL INFORMATION

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|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-GAP43 antibody | Neuromodulin, also known as Axonal membrane protein GAP-43, Growth-associated protein 43, Neural phosphoprotein B-5, pp46 and GAP43, is a cell membrane protein which belongs to the neuromodulin family. Neuromodulin/GAP43 contains one IQ domain. Neuromodulin/GAP43 is associated with nerve growth. It is a major component of the motile "growth cones" that form the tips of elongating axons. Neuromodulin/GAP43 is involved in neurite outgrowth, a crucial process for the differentiation of neurons. The sudden infant death syndrome (SIDS) is the main cause of postneonatal infant death and its cause is still unknown. Neuromodulin/GAP43 is a marker of synaptic plasticity and is critical for normal development of the serotonergic innervation. Neuromodulin/GAP43 is a major cortical cytoskeleton-associated and calmodulin binding protein that is widely and abundantly expressed during development, maintained in selected brain structures in the adult, and reinduced during nerve regeneration. CAP23 and GAP43 are functionally related intrinsic determinants of anatomical plasticity. These proteins function by locally promoting subplasmalemmal actin cytoskeleton accumulation. |
| References                                          | Frey, D. e. al.. 2000,. Cel. Biol. 149(7):1443-54. Caprini, M. e. al.. 2003. EMB. J. 22(12):3004-14. Sawaguchi, T. e. al.. 2003. Earl. Hu. Dev. 7. Suppl: S139-46. Kowara, R. e. al.. 2007. Bioche. Biophy. Re. Commun 363(1):190-3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.