

# Anti-Growth Associated Protein 43 (GAP-43) Antibody

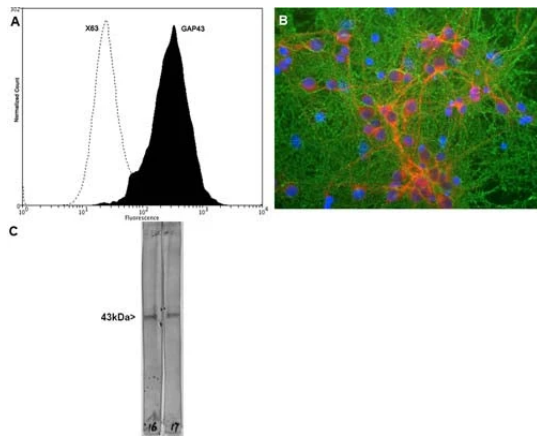


## Product Details

|                    |                                                                                                                                                                                                                                                                                                          |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Available Variants | 100 µg (SKU:M-1650-100)                                                                                                                                                                                                                                                                                  |
| Conjugate          | Unconjugated                                                                                                                                                                                                                                                                                             |
| Isotype            | IgG1                                                                                                                                                                                                                                                                                                     |
| Clone              | GAP43                                                                                                                                                                                                                                                                                                    |
| Host Species       | Mouse                                                                                                                                                                                                                                                                                                    |
| Format             | IgG                                                                                                                                                                                                                                                                                                      |
| Physical State     | Lyophilized                                                                                                                                                                                                                                                                                              |
| Buffer             | Lyophilized from PBS buffer pH 7.2-7.6 with 0.1% trehalose, and sodium azide                                                                                                                                                                                                                             |
| Production Notes   | Affinity Purified                                                                                                                                                                                                                                                                                        |
| Applications       | Flow, ICC, WB                                                                                                                                                                                                                                                                                            |
| Dilution Ranges    | WB: 1:5000-1:10000<br>ICC: 1:1000-1:5000                                                                                                                                                                                                                                                                 |
| Species Reactivity | Mouse, Rat                                                                                                                                                                                                                                                                                               |
| Immunogen          | C-terminal peptide of rat and mouse GAP43, which is KEDPEADQEHA, to which an N terminal Cysteine residue was added to allow chemical coupling to Keyhole Limpet Hemocyanin carrier protein.                                                                                                              |
| Specificity        | The antibody reacts with a 43 kDa band by Western blot on rat spinal cord lysate. It has also been used successfully for immunocytochemistry.                                                                                                                                                            |
| Molecular Weight   | 43 kDa                                                                                                                                                                                                                                                                                                   |
| Storage            | Spin vial briefly before opening. Reconstitute with 100 µL sterile-filtered, ultrapure water to achieve a 1 mg/mL concentration. Centrifuge to remove any insoluble material. After reconstitution of lyophilized antibody, aliquot and store at -20°C for a higher stability. Avoid freeze-thaw cycles. |

|                   |                                                  |
|-------------------|--------------------------------------------------|
| UniProt ID        | <u>P06837</u>                                    |
| Country of Origin | United States                                    |
| Shipping          | 25°C (ambient)                                   |
| Expiration        | 12 months after date of receipt (unopened vial). |
| Usage Statement   | For research use only.                           |

## Product Images



**A: Flow Cytometry** analysis of GAP43 expressed in human neuroblastoma SH-SY5Y cell line. Fixing and permeabilization of cells: Absolute methanol (10 minutes in ice) and 0.1% Tween-20 in PBS; Blocking: 1% BSA; Primary antibody: Mouse Monoclonal antibody to GAP43 (cat # M-1650-100, 2 µg per ~10<sup>6</sup> cells) for 30 minutes at room temperature; Secondary antibody: Goat anti-mouse PE (1:100 dilution), incubation for 20 minutes in dark at room temperature. Non-specific Control IgG, clone X63 (cat # M-1249-200) was used as negative control under same conditions. Data and results were generated using Orflo Moxiflow™ instrument and protocols. **B:** **Immunofluorescence** analysis of mixed neuron-glia cultures stained with mouse anti-GAP43 (green) and rabbit anti-MAP2 (red). Blue: DNA staining. The GAP43 antibody stains the plasma membrane of neurons and is particularly concentrated in dendrites. **C: Western Blot** analysis of GAP43 expression in whole rat spinal cord lysates. The antibody recognizes the ~43 kDa protein.

Product Page URL: [www.antibodiesinc.com/products/anti-growth-associated-protein-43-gap-43-antibody-m-1650-100](http://www.antibodiesinc.com/products/anti-growth-associated-protein-43-gap-43-antibody-m-1650-100)



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