

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

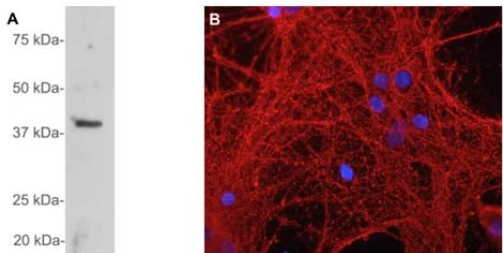


Product Details

Available Variants	100 µg (SKU:R-1651-100)
Conjugate	Unconjugated
Isotype	IgG
Host Species	Rabbit
Format	Affinity-purified
Physical State	Lyophilized
Buffer	Lyophilized from PBS buffer pH 7.2-7.6 with 0.1% trehalose, and sodium azide
Applications	ICC, WB
Dilution Ranges	WB: 1:5000-1:20000 ICC: 1:500-1:2000
Species Reactivity	Bovine, Human, Mouse, Rat
Immunogen	C-terminal peptide 217-227 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 bovine cerebellum homogenate. The molecular weight of the protein recognized can vary (~43-57 kDa) depending on the species and the percentage acrylamide used in the SDS-PAGE gel. It has also been used successfully for immunocytochemistry.
Molecular Weight	~43-57 kDa
Storage	Spin vial briefly before opening. Reconstitute with 100 µL sterile-filtered, ultrapure water. Centrifuge to remove any insoluble material. Store lyophilized, unopened vial at 2-8°C or lower. After reconstitution, prepare aliquots and store at -20°C to -80°C for a higher stability. Avoid freeze-thaw cycles.
UniProt ID	P07936

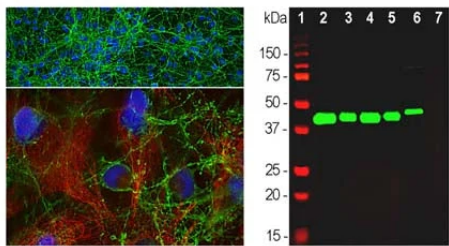
Country of Origin	United States
Shipping	25°C (ambient)
Expiration	12 months after date of receipt (unopened vial).
Usage Statement	For research use only.

Product Images



A: Western blot analysis of GAP43 expression in cow cerebellum. R-1651-100 detects a single band at ~43 kDa, which corresponds to full-length GAP43 protein.

B: Immunofluorescence analysis of mixed neuron-glia cultures with GAP43 rabbit antibody R-1651-100 (red). DNA is stained blue.



Left: Analysis of cortical neuron-glia cell culture from E20 with rabbit antibody to GAP43 (green, 1:2,000) by **Immunocytochemistry**. Cells were co-stained with a mouse antibody to vimentin (red). Blue: DAPI nuclear stain. The GAP43 antibody labels protein expressed in the axonal membrane of neuronal cells, while the vimentin antibody stains intermediate filaments in fibroblasts and other non-neuronal cells.

Right: Western blot analysis of tissue and cell lysates using rabbit antibody to GAP43 (green, 1:20,000). [1] protein standard, [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord, [6] SH-SY5Y cells, [7] C6. The single band at 43 kDa corresponds to GAP43 protein. The GAP43 protein is detected only in the lysates of neuronal origin. Rat glioblastoma C6 cells do not express GAP43 protein (lane 7).

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