

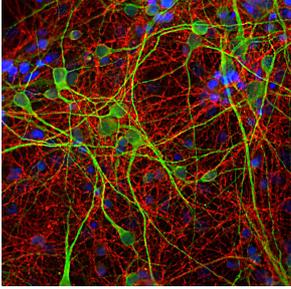
Anti-GAP43 Antibody [3H14] (A85393)

Specifications:

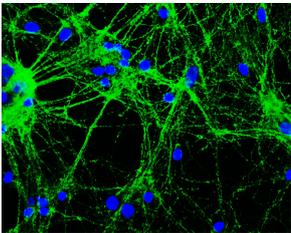
Name:	Anti-GAP43 Antibody [3H14]
Description:	Mouse monoclonal (3H14) antibody to GAP43.
Applications:	WB, ICC/IF, IHC
Recommended Dilutions:	WB: 1:5,000, ICC/IF: 1:1,000-1:5,000, IHC: 1:1,000-1:5,000
Reactivity:	Human, Rat, Mouse
Immunogen:	Recombinant full length human GAP43, expressed in and purified from E. coli.
Host:	Mouse
Clonality:	Monoclonal
Clone ID:	3H14
Isotype:	IgM
Conjugate:	Unconjugated
Purification:	Immunogen affinity purification.
Concentration:	1 mg/ml
Molecular Weight:	~43 kDa (by SDS-PAGE)
Product Form:	Liquid
Formulation:	Supplied in Phosphate Buffered Saline with 50% Glycerol and 5mM Sodium Azide.
Storage:	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
General Notes:	This antibody binds strongly to growth cones and axonal processes of neurons in cell culture and to synaptic regions in sectioned material.
Disclaimer:	This product is for research use only. It is not intended for diagnostic or therapeutic use.

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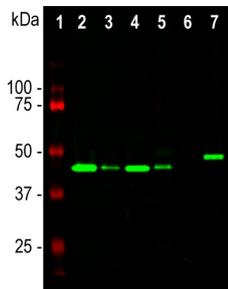
Images:



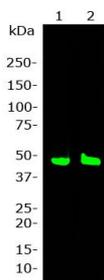
Immunofluorescent analysis of cortical neuron-glia cell culture from E20 rat stained with Anti-GAP43 Antibody (1:1,000 | red) and Anti-MAP2 Antibody (A85363 | 1:10,000 | green). The blue is DAPI staining of nuclear DNA. Anti-GAP43 Antibody labels protein expressed in the axonal membrane of the neuronal cells, while the Anti-MAP2 Antibody stains dendrites and perikarya of neurons.



Mixed rat neuronal cultures stained with Anti-GAP43 Antibody (green). The Anti-GAP43 Antibody stains the plasma membrane of neurons and is particularly concentrated in dendrites.



Western blot analysis of different tissue and cell lysates using Anti-GAP43 Antibody (1:5,000 | green): [1] protein standard (red), [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord, [6] C6 cells, [7] SH-SY5Y cells. The single band at the 43kDa mark corresponds to the GAP43 protein. The protein is expressed in rodent and human neurons and neuronal derived cells but not in C6 cells which are of glial origin.



Western blot analysis of Anti-GAP43 Antibody. Blot of SH-SY5Y cell lysate (Lane 1) and whole rat brain lysate (Lane 2) was probed with Anti-GAP43 Antibody (1: 2,000). Note, the strong single band running at about 43kDa corresponding to GAP43.