# abcam

# Product datasheet

# Alexa Fluor® 647 Anti-GAP43 antibody [EP890Y] - Neuronal Marker ab196540

Recombinant

RabMAb

# 3 Images

#### Overview

Product name Alexa Fluor® 647 Anti-GAP43 antibody [EP890Y] - Neuronal Marker

**Description** Alexa Fluor® 647 Rabbit monoclonal [EP890Y] to GAP43 - Neuronal Marker

Host species Rabbit

**Conjugation** Alexa Fluor® 647. Ex: 652nm, Em: 668nm

Tested applications Suitable for: Flow Cyt (Intra), ICC/IF

Species reactivity Reacts with: Human

Predicted to work with: Mouse, Rat

reduced to work with Modes, nat

**Immunogen** Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

**Positive control** Flow Cyt (intra): U87MG cells. ICC/IF: U87MG cells.

**General notes**Our RabMAb® technology is a patented hybridoma-based technology for making rabbit

monoclonal antibodies. For details on our patents, please refer to **RabMAb**® **patents**.

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Life Technologies Corporation, 5781 Van Allen Way, Carlsbad, CA 92008 USA or

outlicensing@thermofisher.com.

#### **Properties**

**Form** Liquid

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**Storage instructions** Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C.

Avoid freeze / thaw cycle. Store In the Dark.

Storage buffer pH: 7.40

Preservative: 0.02% Sodium azide

Constituents: PBS, 30% Glycerol (glycerin, glycerine), 1% BSA

Purity Protein A purified

Clonality Monoclonal
Clone number EP890Y
Isotype IgG

# **Applications**

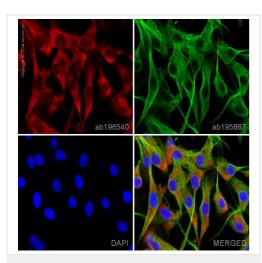
The Abpromise guarantee Our Abpromise guarantee covers the use of ab196540 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/50.  ab199093 - Rabbit monoclonal lgG (Alexa Fluor® 647), is suitable for use as an isotype control with this antibody.
ICC/IF		1/100. This product gave a positive signal in U87MG cells fixed with 4% formaldehyde (10 min) and 100% methanol (5 min)

Target	
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.
Sequence similarities	Belongs to the neuromodulin family.  Contains 1 IQ domain.
Post-translational modifications	Phosphorylation of this protein by a protein kinase C is specifically correlated with certain forms of synaptic plasticity.
Cellular localization	Cell membrane. Cell projection > growth cone membrane. Cell junction > synapse. Cytoplasmic surface of growth cone and synaptic plasma membranes.

# **Images**

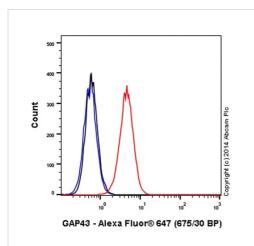


Immunocytochemistry/ Immunofluorescence - Alexa Fluor® 647 Anti-GAP43 antibody [EP890Y] -Neuronal Marker (ab196540)

ab196540 staining GAP43 in U87MG cells. The cells were fixed with 100% methanol (5 min), permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at +4°C with ab196540 at a 1/100 dilution (shown in red) and <a href="mailto:ab195887">ab195887</a>, Mouse monoclonal to alpha Tubulin (Alexa Fluor® 488), at a 1/250 dilution (shown in green). Nuclear DNA was labelled with DAPI (shown in blue).

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

This product also gave a positive signal under the same testing conditions in U87MG cells fixed with 4% formaldehyde (10 min).

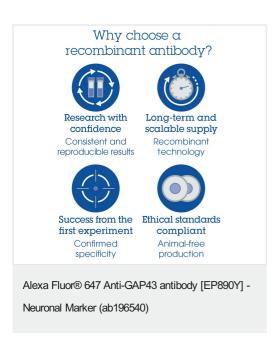


Flow Cytometry (Intracellular) - Alexa Fluor® 647 Anti-GAP43 antibody [EP890Y] - Neuronal Marker (ab196540)

Overlay histogram showing U-87MG cells stained with ab196540 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab196540, 1/50 dilution) for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) Alexa Fluor<sup>®</sup> 647 used at the same concentration and conditions as the primary antibody. Unlabelled sample (blue line) was also used as a control.

Acquisition of >5,000 events were collected using a solid-state 25mW red diode laser (635 nm) and 675/30 bandpass filter.

This antibody gave a positive signal in U-87MG fixed with 4% formaldehyde (10 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.



Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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