abcam

Product datasheet

# Alexa Fluor® 647 Anti-GFAP antibody [EPR1034Y] ab194325

Recombinant RabMAb

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## Overview

| | |
|---|---|
| **Product name** | Alexa Fluor® 647 Anti-GFAP antibody [EPR1034Y] |
| **Description** | Alexa Fluor® 647 Rabbit monoclonal [EPR1034Y] to GFAP |
| **Host species** | Rabbit |
| **Conjugation** | Alexa Fluor® 647. Ex: 652nm, Em: 668nm |
| **Tested applications** | **Suitable for:** IHC-Fr |
| **Species reactivity** | **Reacts with:** Rat<br>**Predicted to work with:** Mouse, Human |
| **Immunogen** | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. |
| **Positive control** | IHC-Fr: Rat brain (Hypothalamus). |
| **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**.<br>Alexa Fluor® is a registered trademark of Molecular Probes, Inc, a Thermo Fisher Scientific Company. The Alexa Fluor® dye included in this product is provided under an intellectual property license from Life Technologies Corporation. As this product contains the Alexa Fluor® dye, the purchase of this product conveys to the buyer the non-transferable right to use the purchased product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). As this product contains the Alexa Fluor® dye the sale of this product is expressly conditioned on the buyer not using the product or its components, or any materials made using the product or its components, in any activity to generate revenue, which may include, but is not limited to use of the product or its components: in manufacturing; (ii) to provide a service, information, or data in return for payment (iii) for therapeutic, diagnostic or prophylactic purposes; or (iv) for resale, regardless of whether they are sold for use in research. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, 5781 Van Allen Way, Carlsbad, CA 92008 USA or **outlicensing@thermofisher.com**. |

## Properties

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|---|---|
| **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<br>Preservative: 0.02% Sodium azide<br>Constituents: 30% Glycerol (glycerin, glycerine), 1% BSA, PBS |
| **Purity** | Protein A purified |
| **Clonality** | Monoclonal |
| **Clone number** | EPR1034Y |
| **Isotype** | IgG |

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab194325 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 |
|---|---|---|
| **IHC-Fr** | | 1/100 - 1/500. |

## Target

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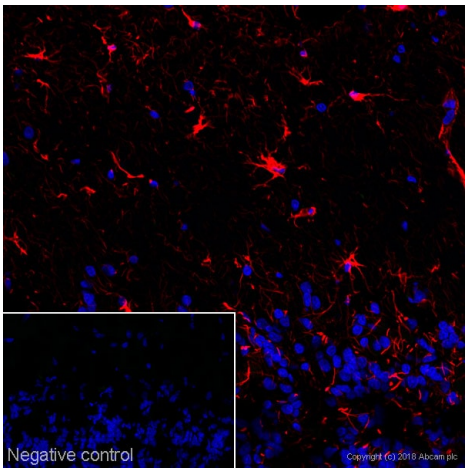
|---|---|
| **Function** | GFAP, a class-III intermediate filament, is a cell-specific marker that, during the development of the central nervous system, distinguishes astrocytes from other glial cells. |
| **Tissue specificity** | Expressed in cells lacking fibronectin. |
| **Involvement in disease** | Defects in GFAP are a cause of Alexander disease (ALEXD) [MIM:203450]. Alexander disease is a rare disorder of the central nervous system. It is a progressive leukoencephalopathy whose hallmark is the widespread accumulation of Rosenthal fibers which are cytoplasmic inclusions in astrocytes. The most common form affects infants and young children, and is characterized by progressive failure of central myelination, usually leading to death usually within the first decade. Infants with Alexander disease develop a leukoencephalopathy with macrocephaly, seizures, and psychomotor retardation. Patients with juvenile or adult forms typically experience ataxia, bulbar signs and spasticity, and a more slowly progressive course. |
| **Sequence similarities** | Belongs to the intermediate filament family. |
| **Post-translational modifications** | Phosphorylated by PKN1. |
| **Cellular localization** | Cytoplasm. Associated with intermediate filaments. |

## Images




Immunohistochemistry (Frozen sections) - Alexa Fluor® 647 Anti-GFAP antibody [EPR1034Y] (ab194325)

IHC image of ab194325 staining in 10% formaldehyde fixed frozen tissue section of normal rat brain.

Non-specific protein-protein interactions were blocked using TBS containing 0.025% (v/v) Triton X-100, 0.3M (w/v) glycine and 3% (w/v) BSA for 1 hour at room temperature. The section was then incubated with ab194325 (1/100 dilution) and DAPI in TBS containing 0.025% (v/v) Triton X-100 and 3% (w/v) BSA overnight at +4°C.

The DAPI only control (no antibody) inset shows no autofluorescence, demonstrating that any Alexa Fluor® 647 signal is derived directly from bound ab194325.

For other IHC staining systems (automated and non-automated), customers should optimize variable parameters such as antibody concentrations and incubation times.


Alexa Fluor® 647 Anti-GFAP antibody [EPR1034Y] (ab194325)

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

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