abcam

Product datasheet

Anti-GFAP antibody [6F2] ab8975

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Overview

Product name	Anti-GFAP antibody [6F2]
Description	Mouse monoclonal [6F2] to GFAP
Host species	Mouse
Specificity	Reacts exclusively with glial fibrillary acidic protein which is present in astrocytes in the central nervous system and Schwann cells.
Tested applications	**Suitable for:** IHC-Fr
Species reactivity	**Reacts with:** Human
Immunogen	Tissue, cells or virus corresponding to Human GFAP. Glial fibrillary acidic protein (full length) from human brain.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.09% Sodium azide Constituent: PBS
Purity	Protein G purified
Clonality	Monoclonal
Clone number	6F2
Isotype	IgG1

Applications

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The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab8975 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		Use at an assay dependent concentration.

Target

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.

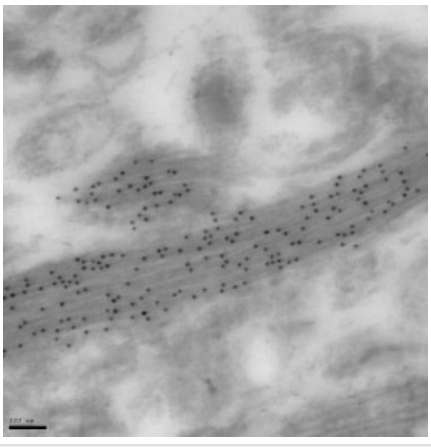
Involvement in disease Defects in GFAP are a cause of Alexander disease (ALEXD) [MIM:203450]. Alexander disease is a rare disorder of the central nervous system. It is a progressive leukoencephalopathy whose hallmark is the widespread accumulation of Rosenthal fibers which are cytoplasmic inclusions 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) - Anti-GFAP antibody [6F2] (ab8975)

GFAP immunogold labelling TEM of corticobasal degeneration brain tissue showing heavy and highly-specific labelling over a glial process. Bar =
100 nm.

This picture was kindly supplied as part of the review submitted by Dr Julian Thorpe (University of Sussex).

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