

Product datasheet

Anti-GFAP antibody - Affinity Purified ab211271

2 Images

Overview

<b>Product name</b>	Anti-GFAP antibody - Affinity Purified
<b>Description</b>	Rabbit polyclonal to GFAP - Affinity Purified
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> ICC, WB, IHC-Fr, ICC/IF, IHC-FoFr, IHC-P, IHC-FrFI
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Recombinant full length protein corresponding to GFAP.
<b>General notes</b>	In some cases, the antibody may appear red in color. This is due to small amounts of hemolysis, and does not affect antibody performance.

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	Constituent: PBS
<b>Purity</b>	Affinity purified
<b>Purification notes</b>	The antibody was made against full length recombinant GFAP based on the human sequence expressed in and purified from E. coli.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab211271** in the following tested applications.

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

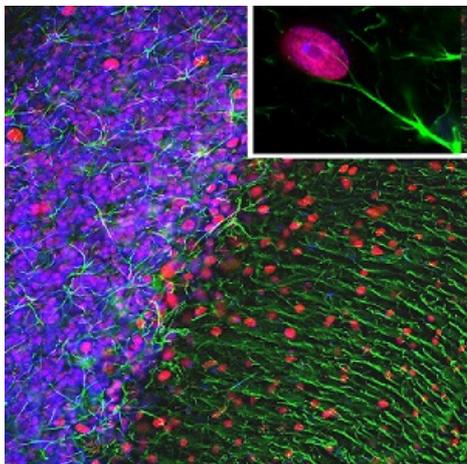
Application	Abreviews	Notes
ICC		1/1000 - 1/5000.
WB		1/5000. Detects a band of approximately 55,48 kDa.

Application	Abreviews	Notes
IHC-Fr		1/1000 - 1/5000.
ICC/IF		1/1000 - 1/5000.
IHC-FoFr		1/1000 - 1/5000.
IHC-P		1/1000 - 1/5000. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
IHC-FrFI		1/1000 - 1/5000.

## Target

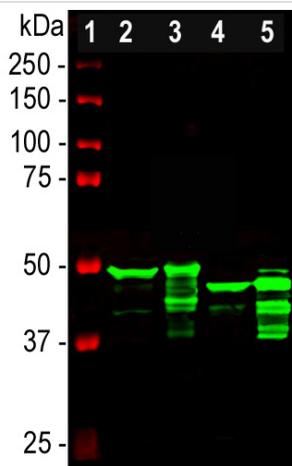
<b>Function</b>	GFAP, a class-III intermediate filament, is a cell-specific marker that, during the development of the central nervous system, distinguishes astrocytes from other glial cells.
<b>Tissue specificity</b>	Expressed in cells lacking fibronectin.
<b>Involvement in disease</b>	Defects in GFAP 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.
<b>Sequence similarities</b>	Belongs to the intermediate filament family.
<b>Post-translational modifications</b>	Phosphorylated by PKN1.
<b>Cellular localization</b>	Cytoplasm. Associated with intermediate filaments.

## Images



Immunohistochemistry - Free Floating - Anti-GFAP antibody - Affinity Purified (ab211271)

Immunohistochemistry (Free Floating) analysis of rat cerebellum staining GFAP with ab211271 (1/5000) in green and MeCP2 with a mouse monoclonal antibody (1/500) in red. The blue is DAPI staining of nuclear DNA. Following transcordial perfusion of rat with 4% paraformaldehyde, brain was post fixed for 1 hour, cut to 45µM, and free-floating sections were stained with above antibodies.



Western blot - Anti-GFAP antibody - Affinity Purified (ab211271)

**Lane 1 :** Protein ladder

**Lanes 2-5 :** Anti-GFAP antibody - Affinity Purified (ab211271) at 1/5000 dilution

**Lane 2 :** Rat brain

**Lane 3 :** Rat spinal cord

**Lane 4 :** Mouse brain

**Lane 5 :** Mouse spinal cord

Strong band at about 50kDa corresponds to the major isotype of the GFAP protein. Smaller isotypes and proteolytic fragments of GFAP are also detected on the blot.

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

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