

## Product datasheet

# Anti-GFAP antibody [GA-5] - BSA and Azide free ab212398

[2 References](#) [2 Images](#)

### Overview

<b>Product name</b>	Anti-GFAP antibody [GA-5] - BSA and Azide free
<b>Description</b>	Mouse monoclonal [GA-5] to GFAP - BSA and Azide free
<b>Host species</b>	Mouse
<b>Specificity</b>	ab212398 shows no cross-reactivity with other intermediate filament proteins.
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Full length native protein (purified) corresponding to Pig GFAP. GFAP isolated from Pig spinal cord Database link: <a href="#">F1RR02</a>
<b>Positive control</b>	Human cerebellum whole cell lysate, Human cerebellum tissue, Brain or Astrocytoma.
<b>General notes</b>	<p>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.</p> <p>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&amp;As</p>

### 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 long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.2 Constituent: 100% PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A/G purified
<b>Purification notes</b>	Purified from Bioreactor Concentrate
<b>Clonality</b>	Monoclonal

Clone number	GA-5
Isotype	IgG1

## Applications

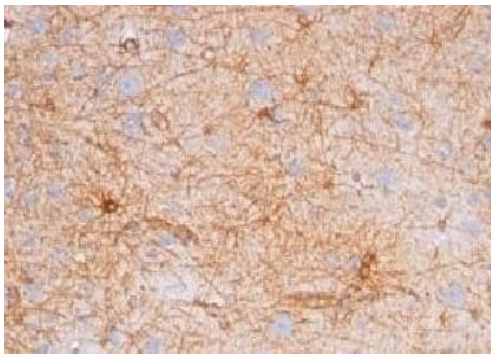
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab212398 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 0.25 - 0.5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		Use a concentration of 0.5 - 1 µg/ml. Predicted molecular weight: 49 kDa.

## Target

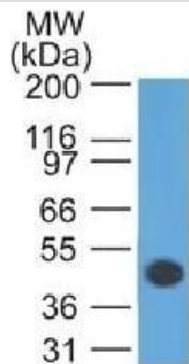
<b>Function</b>	GFAP, a class-III intermediate filament, is a cell-specific marker that, during the development of the central nervous system, distinguishes astrocytes from other glial cells.
<b>Tissue specificity</b>	Expressed in cells lacking fibronectin.
<b>Involvement in disease</b>	Defects in GFAP 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 of Formalin/PFA-fixed paraffin-embedded Human cerebellum tissue labeling GFAP with ab212398 at 0.5µg/ml.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GFAP antibody [GA-5] - BSA and Azide free (ab212398)



Anti-GFAP antibody [GA-5] - BSA and Azide free (ab212398) at 1 µg/ml + Human cerebellum lysate

**Predicted band size:** 49 kDa

Western blot - Anti-GFAP antibody [GA-5] - BSA and Azide free (ab212398)

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

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