




## Product datasheet

### Anti-GFAP antibody ab53554

★★★★★ [24 Abreviews](#) [320 References](#) [2 Images](#)

#### Overview

<b>Product name</b>	Anti-GFAP antibody
<b>Description</b>	Goat polyclonal to GFAP
<b>Host species</b>	Goat
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human <b>Predicted to work with:</b> Dog 
<b>Immunogen</b>	Synthetic peptide corresponding to Human GFAP aa 400 to the C-terminus (C terminal) (Cysteine residue). Database link: <a href="#">P14136-1</a> <div>  <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a> </div>
<b>Positive control</b>	WB: Human cerebellum lysates. Mouse and rat brain lysates.
<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. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 0.5% BSA, 0.5% Tris
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
<b>Clonality</b>	Polyclonal

Isotype

IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab53554 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
WB	★★★★★ (3)	Use a concentration of 0.001 - 0.1 µg/ml. Detects a band of approximately 50 kDa (predicted molecular weight: 50 kDa). A 1 hour primary incubation is recommended for this product. We recommend blocking in milk (3% milk in TBST) for 1 hour at room temperature.

## 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.

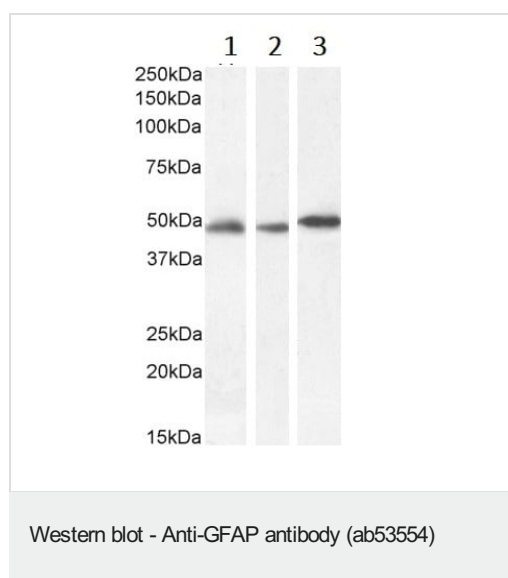
### Post-translational modifications

Phosphorylated by PKN1.

### Cellular localization

Cytoplasm. Associated with intermediate filaments.

## Images



**Lane 1** : Anti-GFAP antibody (ab53554) at 0.001 µg/ml

**Lane 2** : Anti-GFAP antibody (ab53554) at 0.1 µg/ml

**Lane 3** : Anti-GFAP antibody (ab53554) at 0.03 µg/ml

**Lane 1** : Human Cerebellum tissue lysate

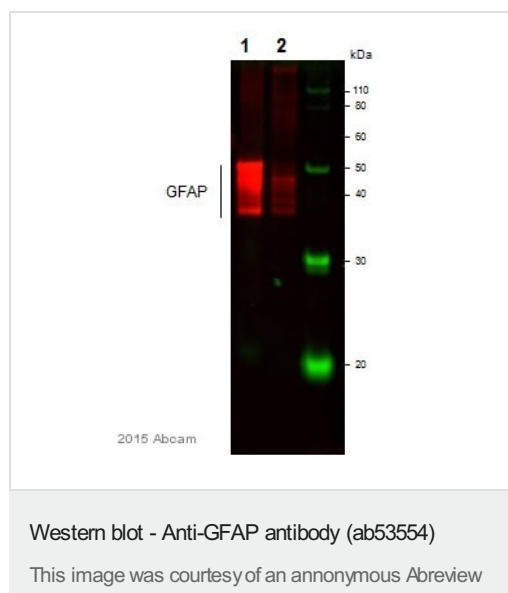
**Lane 2** : Mouse brain tissue lysate

**Lane 3** : Rat brain tissue lysate

Lysates/proteins at 35 µg per lane.

**Predicted band size:** 50 kDa

Lysate in RIPA buffer. Detected by chemiluminescence



**All lanes** : Anti-GFAP antibody (ab53554) at 1/1000 dilution

**All lanes** : Human Tissue lysate - other (Frontal Cortex)

Lysates/proteins at 30 µg per lane.

**Secondary**

**All lanes** : Donkey anti-goat IRDye 800CW conjugated Li-Cor IRdye

**Predicted band size:** 50 kDa

**Observed band size:** 40-50 kDa

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

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