


## Product datasheet

# Anti-GFAP antibody [SP78] - C-terminal ab227641

Recombinant RabMAb

[1 References](#) [5 Images](#)

### Overview

|                            |   |
|----------------------------|---|
| <b>Product name</b>        | Anti-GFAP antibody [SP78] - C-terminal  |
| <b>Description</b>         | Rabbit monoclonal [SP78] to GFAP - C-terminal   |
| <b>Host species</b>        | Rabbit  |
| <b>Tested applications</b> | <b>Suitable for:</b> IHC-P  |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Human<br><b>Predicted to work with:</b> Mouse, Rat, Rabbit, Cow, Dog, Pig   |
| <b>Immunogen</b>           | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.   |
| <b>Positive control</b>    | IHC-P: Human astrocytoma, cerebral cortex, cerebellum and eye tissues.  |
| <b>General notes</b>       | This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> For more information <a href="#">see here</a> .<br><br><b>This product is FOR RESEARCH USE ONLY. For commercial use, please contact <a href="mailto:partnerships@abcam.com">partnerships@abcam.com</a>.</b> |

### 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: 7.60<br>Preservative: 0.1% Sodium azide<br>Constituents: PBS, 1% BSA  |
| <b>Purity</b>               | Protein A/G purified  |
| <b>Purification notes</b>   | Purified from TCS by protein A/G.   |
| <b>Clonality</b>            | Monoclonal  |
| <b>Clone number</b>         | SP78  |

Isotype

IgG

## Applications

---

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab227641 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       |           | 1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. |

## 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.

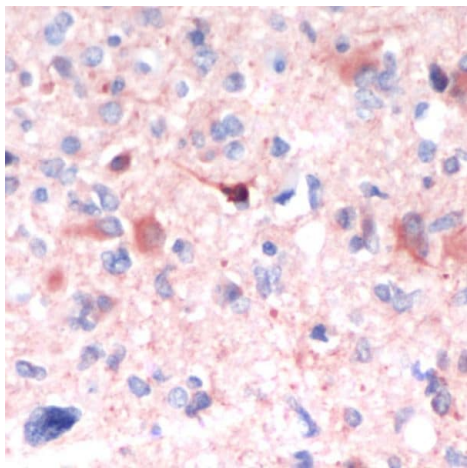
### Cellular localization

Cytoplasm. Associated with intermediate filaments.

---

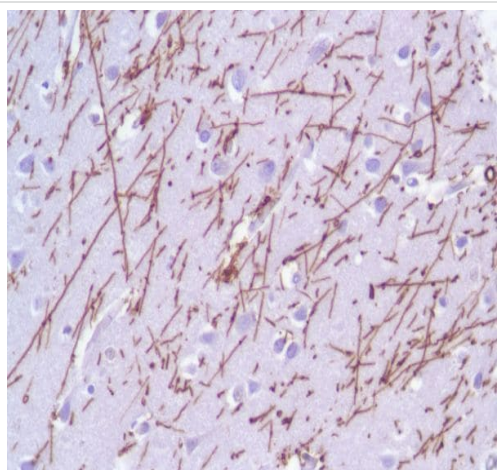
## Images

---



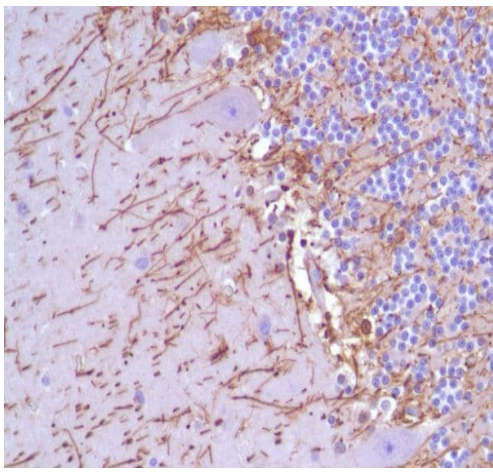
Formalin-fixed, paraffin-embedded human astrocytoma tissue stained for GFAP using ab227641 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GFAP antibody [SP78] - C-terminal (ab227641)



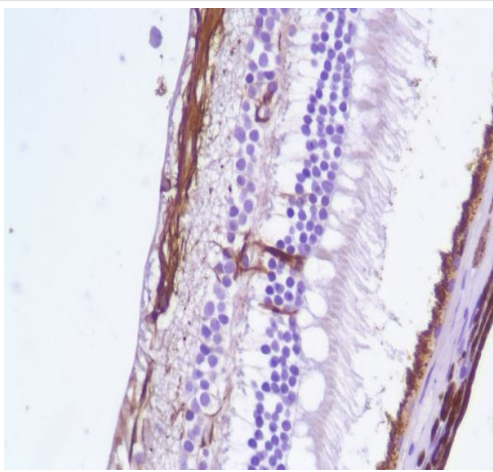
Formalin-fixed, paraffin-embedded human cerebral cortex tissue stained for GFAP using ab227641 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GFAP antibody [SP78] - C-terminal (ab227641)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GFAP antibody [SP78] - C-terminal (ab227641)

Formalin-fixed, paraffin-embedded human cerebellum tissue stained for GFAP using ab227641 at 1/100 dilution in immunohistochemical analysis.





Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GFAP antibody [SP78] - C-terminal (ab227641)


Formalin-fixed, paraffin-embedded human eye tissue stained for GFAP using ab227641 at 1/100 dilution in immunohistochemical analysis.

### Why choose a recombinant antibody?

- 

**Research with confidence**  
Consistent and reproducible results
- 

**Long-term and scalable supply**  
Recombinant technology
- 

**Success from the first experiment**  
Confirmed specificity
- 

**Ethical standards compliant**  
Animal-free production

Anti-GFAP antibody [SP78] - C-terminal (ab227641)

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

### **Our Abpromise to you: Quality guaranteed and expert technical support**

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

### **Terms and conditions**

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors