abcam

ab194324

Alexa Fluor® 488 Anti-GFAP antibody [EPR1034Y] - Astrocyte Marker

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Conjugation	Alexa Fluor® 488
Excitation/Emission	Ex: 495nm, Em: 519nm
Storage buffer	pH: 7.4 Preservative: 0.02% Sodium azide Constituents: PBS, 30% Glycerol (glycerin, glycerine), 1% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR1034Y
Purification technique	Affinity purification Protein A
Concentration	0.5 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-Fr

Tested

Species	Rat
Dilution info	1/50
Notes	-

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Mouse
Dilution info	-
Notes	-

IHC-P

Tested

Species	Rat
Dilution info	1/100
Notes	-

Species	Human
Dilution info	1/500
Notes	-

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

Flow Cyt (Intra)

Expected

Species	Human, Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

ICC/IF

Expected

Species	Human, Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Target data

See full target information GFAP

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.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle, Store in the dark

Notes

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

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Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

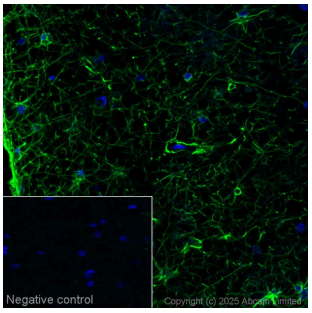
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

5 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Alexa Fluor® 488 Anti-GFAP antibody [EPR1034Y] - Astrocyte Marker (ab194324)

GFAP Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human Alzheimer’ s brain using rabbit Anti-GFAP antibody

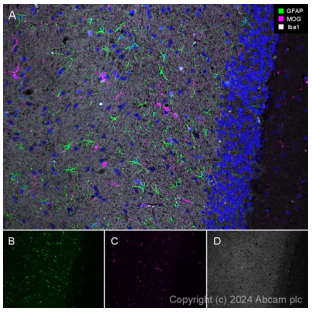
Immunofluorescence staining of GFAP staining in a section of formalin-fixed paraffin-embedded human Alzheimer’ s brain*.

Performed on a Leica BOND. The section was pre-treated using heat mediated antigen retrieval with EDTA (Ph9.0) using retrieval settings of 100°C for 40 minutes. The section was then incubated at room temperature for 1 hour with ab194324 at 1/500 dilution (shown in green). Nuclear DNA was labelled with DAPI (shown in blue). The section was then mounted using Dako Fluorescence Mounting Medium ®.

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

For other IHC staining systems (automated and non-automated), customers should optimize variable parameters such as antigen retrieval conditions, antibody concentrations and incubation times.

*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Alexa Fluor® 488 Anti-GFAP antibody [EPR1034Y] - Astrocyte Marker (ab194324)

GFAP Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Rat cerebellum using rabbit Anti-GFAP antibody

Image A: composite multiplex immunohistochemistry staining using conjugates panel composed of anti- GFAP (Alexa Fluor® 488) (ab194324, 1/100 dilution, 5 µg/mL) (green), anti-MOG (Alexa Fluor® 594) (ab305372, 1/100 dilution, 5 µg/mL) (magenta) and anti-Iba1 (Alexa Fluor® 647) (ab225261, 1/100 dilution, 5 µg/mL) (white) on Formalin/PFA-fixed paraffin-embedded sections of rat cerebellum. Nuclear DNA was labelled with DAPI (blue).

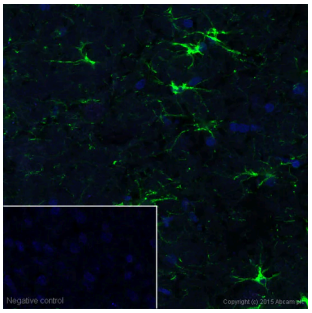
Image B: Formalin/PFA-fixed paraffin-embedded section of rat cerebellum stained with anti- GFAP (Alexa Fluor® 488) (ab194324, 1/100 dilution, 5 µg/mL).

Image C: Formalin/PFA-fixed paraffin-embedded section of rat cerebellum stained with anti- MOG (Alexa Fluor® 594) (ab305372, 1/100 dilution, 5 µg/mL).

Image D: Formalin/PFA-fixed paraffin-embedded section of rat cerebellum stained with anti- Iba1 (Alexa Fluor® 647) (ab225261, 1/100 dilution, 5 µg/mL).

Immunohistochemistry staining was performed on a Leica Biosystems BOND® RX instrument. Heat mediated antigen retrieval with EDTA (pH 9.0, 110°C) for 40 mins. The section was then incubated at room temperature for 1 hour and mounted using Dako Fluorescence Mounting Medium®.

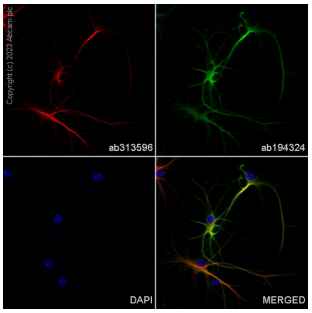
Image acquisition was performed with Leica SP8 confocal microscope. For other IHC staining systems (automated and non-automated), customers should optimize variable parameters such as antigen retrieval conditions, antibody concentrations and incubation times.



Immunohistochemistry (Frozen sections) - Alexa Fluor® 488 Anti-GFAP antibody [EPR1034Y] - Astrocyte Marker (ab194324)

GFAP Immunohistochemistry (Frozen sections) staining using rabbit Anti-GFAP antibody

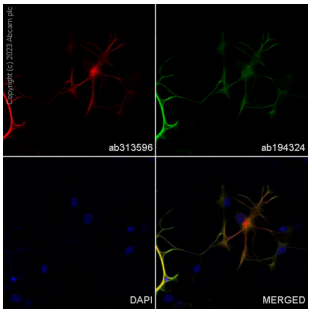
IHC-Fr image of GFAP staining in a section of frozen rat brain (hypothalamus). The section was air dried on the bench for 30 minutes and blocked for 2 hours in 1XPBS/0.1% Tween 20/1% BSA/0.3M Glycine buffer. The sample was then incubated overnight at +4°C with ab194324 at 1/50 dilution (shown in green). DAPI-containing mounting media was added to the sample (shown in blue). The inset negative control image is taken from an identical assay without primary antibody.



Immunocytochemistry/ Immunofluorescence - Alexa Fluor® 488 Anti-GFAP antibody [EPR1034Y] - Astrocyte Marker (ab194324)

GFAP Immunocytochemistry/ Immunofluorescence staining of rat primary neural/glia cell using rabbit Anti-GFAP antibody

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized rat primary neural/glia cell cells labelling GFAP with ab313596 at 1/50 (10.0 ug/ml) dilution (Green). Confocal image showing positive staining in rat primary glia cells.Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).Confocal scanning Z step was set as 0.3 µm followed by image processing with maximum Z projection. ab194324 Anti-GFAP rabbit monoclonal antibody (Alexa Fluor® 488) was used to counterstain tubulin at 1/100 5ug/ml dilution (Red). The Nuclear counterstain was DAPI (Blue).



Immunocytochemistry/ Immunofluorescence - Alexa Fluor® 488 Anti-GFAP antibody [EPR1034Y] - Astrocyte Marker (ab194324)

GFAP Immunocytochemistry/ Immunofluorescence staining of mouse primary neural/glia cell using rabbit Anti-GFAP antibody

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized mouse primary neural/glia cell cells labelling GFAP with ab313596 at 1/50 (10.0 ug/ml) dilution (Green). Confocal image showing positive staining in mouse primary glia cells.Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).Confocal scanning Z step was set as 0.3 µm followed by image processing with maximum Z projection. ab194324 Anti-GFAP rabbit monoclonal antibody (Alexa Fluor® 488) was used to counterstain tubulin at 1/100 5ug/ml dilution (Red). The Nuclear counterstain was DAPI (Blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.