abcam

ab303560

Anti-GFAP (phospho S13) antibody [EPR25281-65]

Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR25281-65
Purification technique	Affinity purification Protein A
Concentration	0.508 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Human
Dilution info	1/1000
Notes	-

Species	Transfected cell lysate - Human

Dilution info	1/1000
Notes	-

Not recommended

Species	Mouse, Rat, Synthetic peptide
Dilution info	-
Notes	-

IHC-P

Tested

Species	Transfected cell lysate - Human
Dilution info	1/500
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Expected

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

Not recommended

Species	Mouse
Dilution info	-
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Rat
Dilution info	-
Notes	-

Species	Synthetic peptide
Dilution info	-

Notes	-

ICC/IF

Not recommended

Species	Rat, Mouse, Human, Transfected cell lysate - Human, Synthetic peptide
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/500
Notes	-

Not recommended

Species	Mouse, Transfected cell lysate - Human, Rat, Synthetic peptide
Dilution info	-
Notes	-

IP

Tested

Species	Human
Dilution info	1/30
Notes	-

Not recommended

Species	Mouse, Transfected cell lysate - Human, Rat, Synthetic peptide
Dilution info	-
Notes	-

Dot

Tested

Species	Synthetic peptide
Dilution info	1/1000
Notes	-

Expected

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

Not recommended

Species	Mouse, Transfected cell lysate - Human, Rat
Dilution info	-
Notes	-

Target data

See full target information GFAP pS13

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	Conditional Ambient
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

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.

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

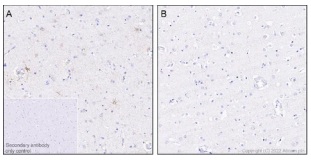
We do not recommend this combination. It is not covered by our product promise.

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.

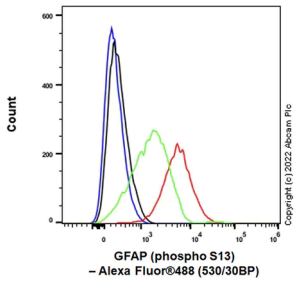
6 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GFAP (phospho S13) antibody [EPR25281-65] (ab303560)

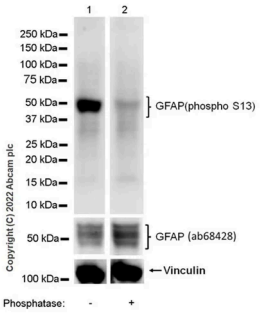
GFAP (phospho S13) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-GFAP (phospho S13) antibody

Immunohistochemical analysis of paraffin-embedded human cerebrum tissue labeling GFAP (phospho S13) with ab303560 at 1/500 dilution (1.016 µg/mL), followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Positive staining was observed on astrocyte in human cerebrum without alkaline phosphatase treatment (image A, PMID: 22528834). No signal was detected when tissues were treated with alkaline phosphatase (image B). The section was incubated with ab303560 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) at Ready to use dilution. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins was used.



Flow Cytometry - Anti-GFAP (phospho S13) antibody [EPR25281-65] (ab303560)

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized U-87 MG (human glioblastoma-astrocytoma epithelial cell) treated with 1ug/ml LPS for 24 hours, then add 100nM Calyculin A for 30 min (Red) / Untreated control (Green) cells labelling GFAP (phospho S13) with ab303560 at 1/500 dilution (0.1ug) (Red) and Green (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/2000 dilution was used as the secondary antibody.



Western blot - Anti-GFAP (phospho S13) antibody [EPR25281-65] (ab303560)

GFAP (phospho S13) Western blot staining using rabbit Anti-GFAP (phospho S13) antibody

Blocking and dilution buffer and concentration: 5% NFDM/TBST.
The molecular weight observed is consistent with what has been described in the literature (PMID: 31682229, PMID: 22528834).

All lanes:
Western blot - Anti-GFAP (phospho S13) antibody [EPR25281-65] (ab303560) at 1/1000 dilution

Lane 1:
U-87 MG (human glioblastoma-astrocytoma epithelial cell) treated with 1 ug/ml LPS for 24 hours, then add 100 nM Calyculin A for 30 min, whole cell lysate (untreated membrane) at 20 µg

Lane 2:
U-87 MG treated with 1 µg/ml LPS for 24h, then add 100 nM Calyculin A for 30 min, (phosphatase treated membrane), whole cell lysate at 20 µg

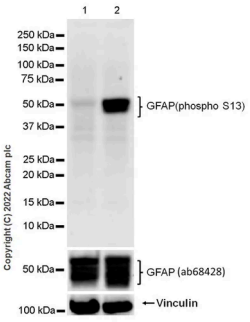
Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 49 kDa

Observed band size: 35 kDa, 55 kDa, 50 kDa

Exposure time: 70s



Western blot - Anti-GFAP (phospho S13) antibody [EPR25281-65] (ab303560)

GFAP (phospho S13) Western blot staining using rabbit Anti-GFAP (phospho S13) antibody

Blocking and dilution buffer and concentration: 5% NFDM/TBST.
The molecular weight observed is consistent with what has been described in the literature (PMID: 31682229, PMID: 22528834).

All lanes:
Western blot - Anti-GFAP (phospho S13) antibody [EPR25281-65] (ab303560) at 1/1000 dilution

Lane 1:
Untreated U-87 MG (human glioblastoma-astrocytoma epithelial cell), whole cell lysate at 20 µg

Lane 2:
U-87 MG treated with 1ug/ml LPS for 24 hours, then add 100nM Calyculin A for 30 min, whole cell lysate at 20 µg

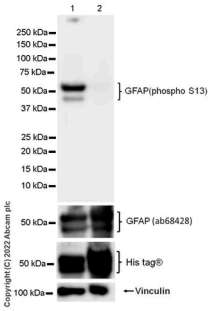
Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 49 kDa

Observed band size: 49 kDa

Exposure time: 70s



Western blot - Anti-GFAP (phospho S13) antibody [EPR25281-65] (ab303560)

GFAP (phospho S13) Western blot staining using rabbit Anti-GFAP (phospho S13) antibody

Blocking and dilution buffer and concentration: 5% NFDM/TBST. Exposure time: 5.5 seconds.
All lanes:
Western blot - Anti-GFAP (phospho S13) antibody [EPR25281-65] (ab303560) at 1/1000 dilution

Lane 1:
HEK-293T (human embryonic kidney cell) transfected with a human GFAP (WT) expression vector containing a myc-His-tag®, whole cell lysate at 20 µg

Lane 2:
HEK-293T transfected with a human GFAP (S13A mutation) expression vector containing a myc-His-tag®, whole cell lysate at 20 µg

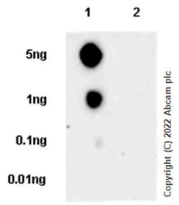
Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 49 kDa

Observed band size: 35 kDa, 55 kDa, 50 kDa

Exposure time: 5.5s



Dot Blot - Anti-GFAP (phospho S13) antibody [EPR25281-65] (ab303560)

Dot blot analysis of GFAP (phospho S13) using ab303560 at 1:1000 (0.508 ug/ml) followed by a Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ab97051) at 1:100,000 dilution. Exposure time: 180 seconds Blocking and diluting buffer and concentration: 5% NFDM/TBST

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