

GFAP Polyclonal Antibody

Product Details	
Size	50 µL
Species Reactivity	Bovine, Chicken, Horse, Guinea pig, Human, Mouse, Pig, Rabbit, Rat
Published Species	Rat, Mouse, Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Recombinant full-length human GFAP isotype 1 expressed in and purified from E. coli
Form	Liquid
Concentration	Conc. Not Determined
Storage buffer	whole serum
Contains	5mM sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2109795

Applications	Tested Dilution	Publications
Western Blot (WB)	1:5,000	4 Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1:1,000-1:5,000	-
Immunohistochemistry (Frozen) (IHC (F))	1:1,000	-
Immunohistochemistry - Free Floating (IHC (Free))	1:5,000	1 Publication
Immunocytochemistry (ICC/IF)	1:1,000-1:5,000	2 Publications

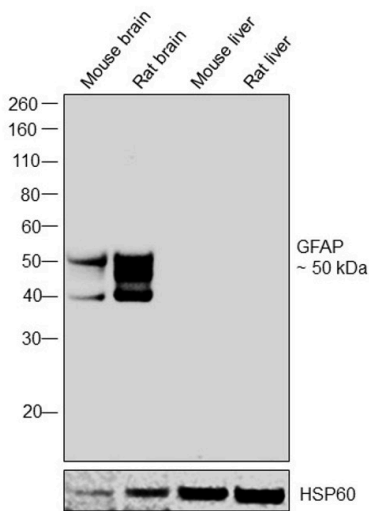
Product Specific Information

This antibody is likely to react with most mammals.

Product Images For GFAP Polyclonal Antibody

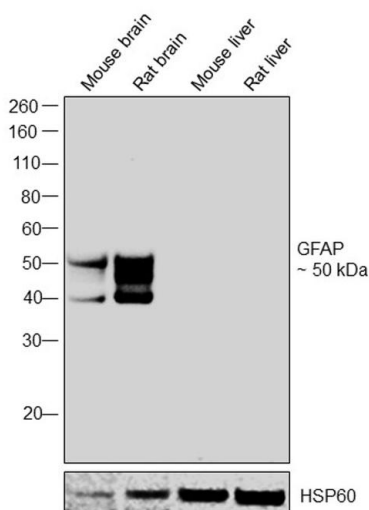
GFAP Antibody (PA3-16727)

Antibody specificity was demonstrated by detection of differential basal expression of the target across tissue tested owing to their inherent genetic constitution. Relative expression of GFAP was observed in Mouse brain, Rat brain in comparison to Mouse liver and Rat liver using Anti-GFAP Rabbit Polyclonal Antibody (Product # PA3-16727) in Western Blot. {RE}



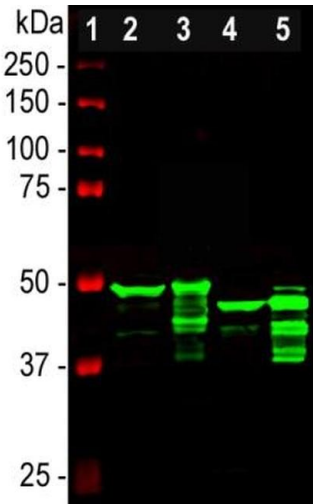
GFAP Antibody (PA3-16727) in WB

Western blot was performed using Anti-GFAP Rabbit Polyclonal Antibody (Product # PA3-16727) and a 50 kDa band corresponding to GFAP was observed across tissues tested except Mouse and Rat liver. Whole cell extracts (30 µg lysate) of Mouse brain (Lane 1), Rat brain (Lane 2), Mouse liver (Lane 3) and Rat liver (Lane 4) were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0321BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:20000 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain), Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



GFAP Antibody (PA3-16727) in WB

Western blot analysis of GFAP in different tissue lysates. Samples were incubated in GFAP polyclonal antibody (Product # PA3-16727 using a dilution of 1:5000. Antibody in green: [1] protein standard (red), [2] rat brain, [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord. Strong band at about 50 kDa corresponds to the major isotype of the GFAP protein. Smaller isotypes and proteolytic fragments of GFAP are also detected on the blot.



8 References

Western Blot (4)

Molecular and cellular neurosciences

The mitochondria-targeted antioxidant MitoQ inhibits memory loss, neuropathology, and extends lifespan in aged 3xTg-AD mice.

"PA3-16727 was used in Western Blotting to support a role for the involvement of mitochondria-derived oxidative stress in the etiology of AD and suggest that mitochondria-targeted antioxidants may lessen symptoms in AD patients."

Authors: Young ML, Franklin JL

Year
2019

Species
Mouse

Dilution
1:1000

Journal of neurochemistry

Involvement of aberrant cyclin-dependent kinase 5/p25 activity in experimental traumatic brain injury.

"Published figure using GFAP polyclonal antibody (Product # PA3-16727) in Immunohistochemistry"

Authors: Yousuf MA, Tan C, Torres-Altoro MI, Lu FM, Plautz E, Zhang S, Takahashi M, Hernandez A, Kernie SG, Plattner F, Bibb JA

Year
2016

View more WB references on thermofisher.com

Immunohistochemistry (1)

Journal of neurochemistry

Involvement of aberrant cyclin-dependent kinase 5/p25 activity in experimental traumatic brain injury.

"Published figure using GFAP polyclonal antibody (Product # PA3-16727) in Immunohistochemistry"

Authors: Yousuf MA, Tan C, Torres-Altoro MI, Lu FM, Plautz E, Zhang S, Takahashi M, Hernandez A, Kernie SG, Plattner F, Bibb JA

Year
2016

Immunohistochemistry - Free Floating (1)

Pain

Oral administration of the p38 MAPK inhibitor, UR13870, inhibits affective pain behavior after spinal cord injury.

"PA3-16727 was used in immunohistochemistry - free floating to test the effect of a p38alpha MAPK inhibitor on spinal cord injury in the rat"

Authors: Galan-Arriero I, Avila-Martin G, Ferrer-Donato A, Gomez-Soriano J, Bravo-Esteban E, Taylor J

Year
2014

Species
Rat

Dilution
1:5000

More applications with references on thermofisher.com

ICC/IF (2)

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