

GFAP Polyclonal Antibody

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Mouse, Human
Host/Isotype	Goat / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide sequence (DGEVIKESKQEHKD) corresponding to the C-terminus amino acids of GFAP
Form	Liquid
Concentration	0.5 mg/mL
Purification	Ammonium sulfate precipitation
Storage buffer	TBS, pH 7.3, with 0.5% BSA
Contains	0.02% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_10984384

Applications	Tested Dilution	Publications
Western Blot (WB)	0.001-0.1 µg/mL	-
Immunohistochemistry (IHC)	-	2 Publications
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	1 Publication

Product Specific Information

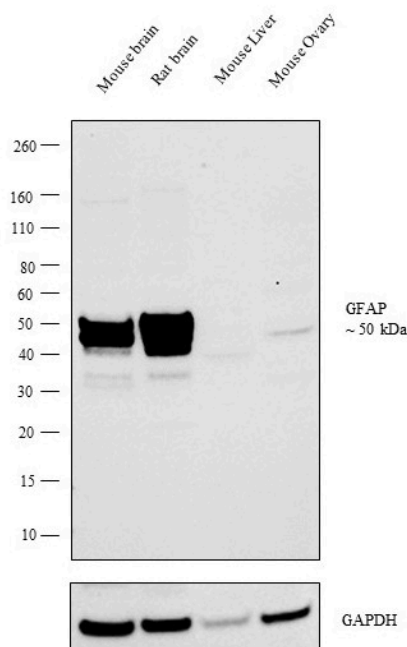
This antibody is predicted to react with canine and rat based on sequence homology.

This antibody is tested in Peptide ELISA: antibody detection limit dilution 128,000.

Product Images For GFAP Polyclonal Antibody

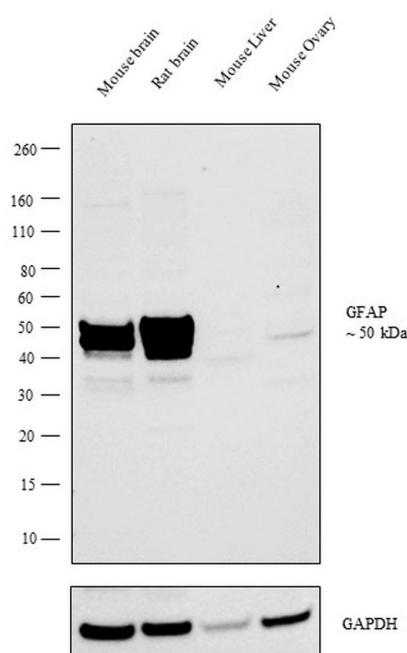
GFAP Antibody (PA5-18598)

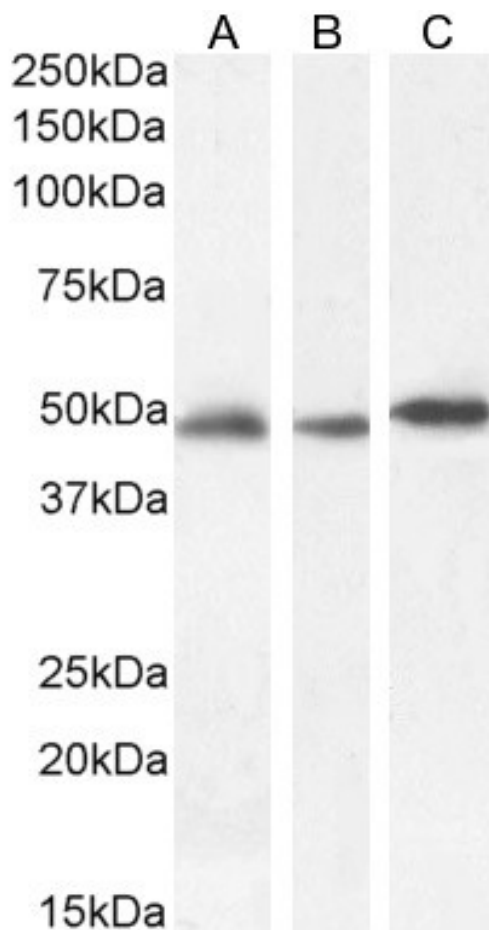
Antibody specificity was demonstrated by detection of differential basal expression of the target in tissues owing to their inherent genetic constitution. Differential basal expression of GFAP was observed across the tissues where the brain samples tested positive for GFAP using product (Product # PA5-18598) in western blot. {RE}



GFAP Antibody (PA5-18598) in WB

Western blot analysis was performed on tissue extracts (30 µg lysate) of Mouse brain (Lane 1), Rat brain (Lane 2), Mouse Liver (Lane 3) and Mouse Ovary (Lane 4). The blot was probed with Anti-GFAP Polyclonal Antibody (Product # PA5-18598, 1:1000 dilution) and detected by chemiluminescence using Rabbit anti-Goat IgG Heavy Chain Superclonal™ Secondary Antibody, HRP conjugate (Product # A27014, 0.25 µg/mL, 1:4000 dilution). A 50 kDa band corresponding to GFAP was observed in the Mouse and Rat brain, while it was not detected in Mouse Liver and Mouse Ovary.





GFAP Antibody (PA5-18598) in WB

Western blot analysis of GFAP using GFAP Polyclonal Antibody (Product # PA5-18598) (0.001 $\mu\text{g/mL}$) in staining of Human Cerebellum (A), (0.1 $\mu\text{g/mL}$) Mouse Brain (B) and (0.03 $\mu\text{g/mL}$) Rat Brain (C) lysate (35 μg protein in RIPA buffer). Detected by chemiluminescence.

[View more figures on thermofisher.com](https://thermofisher.com)

Immunohistochemistry (2)

<p>Journal of Alzheimer's disease : JAD</p> <p>Metabolic Profiling of Suprachiasmatic Nucleus Reveals Multifaceted Effects in an Alzheimer's Disease Mouse Model.</p> <p>"Published figure using GFAP polyclonal antibody (Product # PA5-18598) in Immunohistochemistry"</p> <p>Authors: Eeza MNH,Singer R,Höfling C,Matysik J,de Groot HJM,Roner S,Alia A</p>	<p>Year 2021</p>
<p>Glia</p> <p>Beneficial contribution of induced pluripotent stem cell-progeny to Connexin 47 dynamics during demyelination-remyelination.</p> <p>"PA5-18598 was used in Immunohistochemistry to investigate the expression dynamics of the oligodendrocyte specific connexin 47 (Cx47) and to some extent that of astrocyte Cx43, and whether this dynamic could be modulated by grafted induced pluripotent stem cell (iPSC)-neural progeny."</p> <p>Authors: Mozafari S,Deboux C,Laterza C,Ehrlich M,Kuhlmann T,Martino G,Baron-Van Evercooren A</p>	<p>Year 2021</p> <p>Species Mouse</p> <p>Dilution 1:200</p>

Immunohistochemistry (PFA fixed) (1)

<p>Cell stem cell</p> <p>Zika Virus Targets Glioblastoma Stem Cells through a SOX2-Integrin _{v5} Axis.</p> <p>"PA5-18598 was used in Immunohistochemistry (PFA fixed) to demonstrate that ZIKV preferentially infected and killed GSCs and stem-like cells in medulloblastoma and ependymoma in a SOX2-dependent manner."</p> <p>Authors: Zhu Z,Mesci P,Bernatchez JA,Gimple RC,Wang X,Schafer ST,Wettersten HI,Beck S,Clark AE,Wu Q,Prager BC,Kim LJY,Dhanwani R,Sharma S,Garancher A,Weis SM,Mack SC,Negraes PD,Trujillo CA,Penalva LO,Feng J,Lan Z,Zhang R,Wessel AW,Dhawan S,Diamond MS,Chen CC,Wechsler-Reya RJ,Gage FH,Hu H,Siqueira-Neto JL,Muotri AR,Cheresh DA,Rich JN</p>	<p>Year 2020</p> <p>Species Mouse</p> <p>Dilution 1:1000</p>
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Immunocytochemistry (1)

<p>PloS one</p> <p>Three-dimensional brain-on-chip model using human iPSC-derived GABAergic neurons and astrocytes: Butyrylcholinesterase post-treatment for acute malathion exposure.</p> <p>"Published figure using GFAP polyclonal antibody (Product # PA5-18598) in Immunocytochemistry"</p> <p>Authors: Liu L,Koo Y,Russell T,Gay E,Li Y,Yun Y</p>	<p>Year 2020</p> <p>Species Human</p> <p>Dilution 1:100</p>
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