

## ARG52312 anti-GFAP antibody

Package: 100 µl, 50 µl  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes Glial Fibrillary Acidic Protein (GFAP)
Tested Reactivity	Ms, Rat
Tested Application	ICC/IF, IHC-FoFr, IHC-Fr, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	GFAP
Species	Bovine
Immunogen	Recombinant and purified bovine GFAP
Conjugation	Un-conjugated
Alternate Names	Glial fibrillary acidic protein; ALXDRD; GFAP

### Application Instructions

Application table	Application	Dilution
	ICC/IF	1:1,000
	IHC-FoFr	Assay-dependent
	IHC-Fr	1:500 - 1:2000
	IHC-P	1:500 - 1:2000
	WB	1:5,000

**Application Note** Specific for the ~50kDa GFAP protein. A lower band at ~45kDa is a proteolytic fragment derived from the GFAP molecule.  
\* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

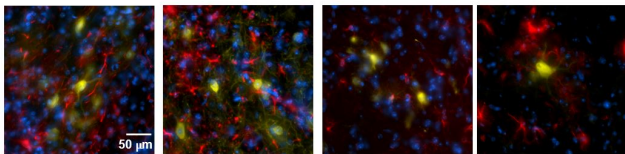
### Properties

Form	Liquid
Purification	Neat Serum
Buffer	Neat serum
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Database links	<a href="#">GeneID: 14580 Mouse</a> <a href="#">GeneID: 24387 Rat</a> <a href="#">Swiss-port # P03995 Mouse</a> <a href="#">Swiss-port # P47819 Rat</a>
Gene Symbol	GFAP
Gene Full Name	glial fibrillary acidic protein
Background	GFAP is one of the major intermediate filament proteins of mature astrocytes. It is used as a marker to distinguish astrocytes from other glial cells during development. Mutations in this gene cause Alexander disease, a rare disorder of astrocytes in the central nervous system. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Oct 2008]
Function	GFAP is a class-III intermediate filament. It is a cell-specific marker that, during the development of the central nervous system, distinguishes astrocytes from other glial cells. [UniProt]
Highlight	Related Antibody Duos and Panels: <a href="#">ARG30006 NSC and Astrocyte Marker Antibody Duo (GFAP, Nestin)</a> <a href="#">ARG30007 Astrocyte Marker Antibody Duo (Host: Goat, Rabbit)</a> Related products: <a href="#">GFAP antibodies: GFAP Duos / Panels: Anti-Rabbit IgG secondary antibodies:</a> Related news: <a href="#">Microglial help TAM-ing inflammation in the brain</a> <a href="#">Astrocyte-to-neuron conversion for Parkinson's disease treatment</a>
Research Area	Controls and Markers antibody; Developmental Biology antibody; Neuroscience antibody; Signaling Transduction antibody; Astrocyte Marker antibody; Astrocyte Maturation Marker antibody; Neuroinflammation antibody; Brain Injury IHC Study antibody
Calculated Mw	50 kDa
PTM	Phosphorylated by PKN1.

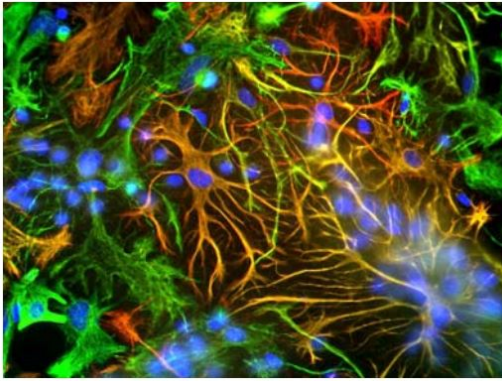
## Images



ARG52312 anti-GFAP antibody IHC-Fr image

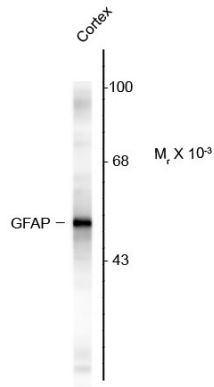
Immunohistochemistry: Frozen section of Mouse C57BL/6Jnarl brain tissue. The tissue section was fixed by 4% formalin and blocked with BSA with 3% Goat serum, at RT for 1 hour. Tissue section was then stained with ARG52312 anti-GFAP antibody at 1:500 dilution, in PBS with 1% Goat serum, overnight at 4°C.

Blue: DAPI  
Yellow: Venus reporter gene  
Red: GFAP



#### ARG52312 anti-GFAP antibody ICC/IF image

Immunofluorescence: Cultured neurons and glia stained with ARG52312 anti-GFAP antibody (red) and [ARG52468](#) anti-Vimentin antibody (green) showing specific labeling of GFAP (red) and vimentin (green). Cells containing GFAP and vimentin appear yellow



#### ARG52312 anti-GFAP antibody WB image

Western blot: Rat cortex lysate showing specific immunolabeling of the ~50 kDa GFAP protein stained with ARG52312 anti-GFAP antibody.