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.

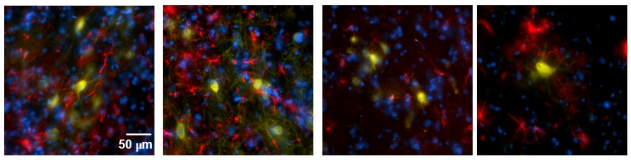
Properties

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	GeneID: 14580 Mouse GeneID: 24387 Rat Swiss-port # P03995 Mouse Swiss-port # P47819 Rat
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: ARG30006 NSC and Astrocyte Marker Antibody Duo (GFAP, Nestin) ARG30007 Astrocyte Marker Antibody Duo (Host: Goat, Rabbit) Related products: GFAP antibodies; GFAP Duos / Panels; Anti-Rabbit IgG secondary antibodies; Related news: Microglial help TAM-ing inflammation in the brain Astrocyte-to-neuron conversion for Parkinson's disease treatment
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.

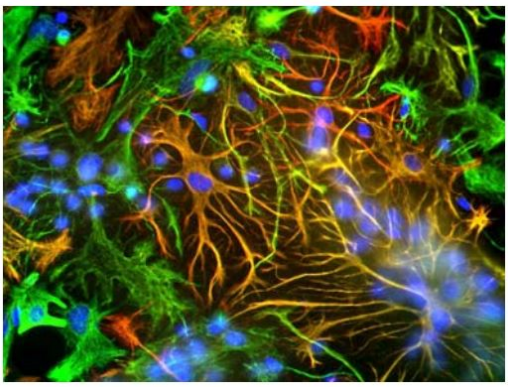
Images



ARG52312 anti-GFAP antibody IHC-Fr image

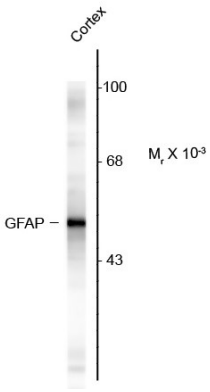
Immunohistochemistry: Frozen section of Mouse C57BL/6Jnarl brain tissue. The tissue section was fixed by 4% formalin and blocked with BSA with 3% Goat serum, at RT for 1 hour. Tissue section was then stained with ARG52312 anti-GFAP antibody at 1:500 dilution, in PBS with 1% Goat serum, overnight at 4°C.

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.