ARG52313
anti-GFAP antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Chicken Polyclonal antibody recognizes Glial Fibrillary Acidic Protein (GFAP)
Tested Reactivity	Hu, Ms, Rat, Bov, Cat, Chk, R. Mk, Rb
Tested Application	ELISA, FACS, ICC/IF, IHC-Fr, IHC-P, WB
Host	Chicken
Clonality	Polyclonal
Isotype	IgY
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
ELISA	1:5000
FACS	1:100
ICC/IF	1:1000
IHC-Fr	1:1000
IHC-P	1:1000
WB	1:10000

Application Note

Specific for the ~50kDa GFAP protein. A lower band at ~45kDa is a proteolytic fragment derived from the GFAP molecule. Astrocytes stain strongly and specifically in a clearly filamentous fashion with this antibody.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Total IgY fraction
Buffer	Total IgY fraction in PBS and 10 mM Sodium azide
Preservative	10 mM Sodium azide
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

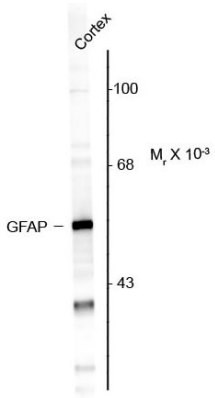
freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

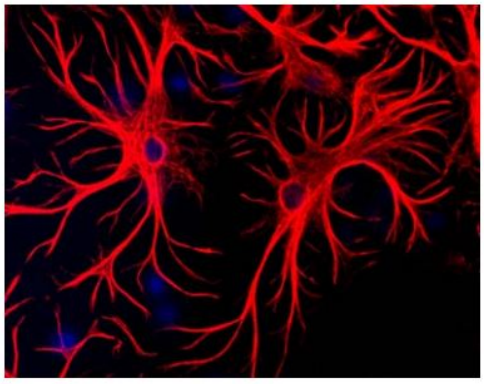
Gene Symbol	GFAP
Gene Full Name	glial fibrillary acidic protein
Background	GFAP is one of the major intermediate filament proteins of mature astrocytes. It is used as a marker to distinguish astrocytes from other glial cells during development. Mutations in this gene cause Alexander disease, a rare disorder 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: ARG30324 Neuroinflammation Antibody Panel Related products: GFAP antibodies; GFAP Duos / Panels; Anti-Chicken IgY secondary antibodies; Related news: Stem cell and the regenerative medicine: Ready for the patients 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



ARG52313 anti-GFAP antibody WB image

Western Blot: Rat cortex lysate showing specific immunolabeling of the ~50k GFAP protein stained with ARG52313 anti-GFAP antibody.



ARG52313 anti-GFAP antibody ICC/IF image

Immunofluorescence: Mixed cultures of neurons and glia stained with ARG52313 anti-GFAP antibody (red), and DNA (blue). Astrocytes stain strongly and specifically in a clearly filamentous fashion with this antibody.