## CoraLite®594-conjugated GFAP Monoclonal antibody

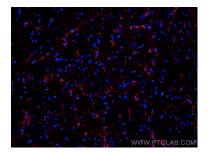
Catalog Number:CL594-60190 1 Publications



Basic Information	Catalog Number: CL594-60190	GenBank Accession Number: BC013596	Purification Method: Protein A purification
	Size: 1000 µg/ml	GenelD (NCBI): 2670	CloneNo.: 4B2E10
	Source: Mouse	UNIPROT ID: P14136	Recommended Dilutions: IF-P 1:50-1:500
	Isotype: IgG2a	gG2a glial fibrillary acidic protein with mmunogen Catalog Number: Calculated MW:	Excitation/Emission maxima wavelengths:
	Immunogen Catalog Number: AG10452		588 nm / 604 nm
Applications	Tested Applications: IF-P	Positive Controls:	
	Cited Applications:	IF-P : rat brain tissue,	
	Species Specificity: human, mouse, rat, pig		
	Cited Species: mouse		
Background Information	GFAP Function GFAP (Glial fibrillary acidic protein) is a type III intermediate filament (IF) protein specific to the central nervous system (CNS). GFAP is one of the main components of the intermediate filament network in astrocytes and has been proposed as playing a role in cell migration, cell motility, maintaining mechanical strength, and in mitosis. Tissue specificity GFAP is expressed in central nervous system cells, predominantly in astrocytes. GFAP is commonly used as an astrocyte marker. However, GFAP is also present in peripheral glia and in non-CNS cells, including fibroblasts, chondrocytes, lymphocytes, and liver stellate cells (PMID: 21219963). Involvement in disease Mutations in GFAP lead to Alexander disease (OMIM: 203450), an autosomal dominant CNS disorder. The mutations present in affected individuals are thought to be gain-of-function. Upregulation of GFAP is a hallmark of reactive astrocytes, in which GFAP is present in hypertrophic cellular processes. Reactive astrogliosis is present in many neurological disorders, such as stroke, various neurodegenerative diseases (including Alzheimer's and Parkinson's disease), and neurotrauma. Isoforms Astrocytes express 10 different isoform expression varies during the development and across different subtypes of astrocytes. Not all isoform: are upregulated in reactive astrocytes. Post-translational modifications Intermediate filament proteins are regulated by phosphorylation. Six phosphorylation sites have been identified in GFAP localizes to intermediate filaments and stains well in astrocyte cellular processes. The antibody is conjugated with CL594, Ex/Em 593 nm/614 nm.		
	astrogliosis is present in many ne (including Alzheimer's and Parkin isoforms of GFAP that differ in the size. Isoform expression varies du are upregulated in reactive astroor regulated by phosphorylation. Six which are reported to control filan intermediate filaments and stain	urological disorders, such as strok ison's disease), and neurotrauma. rod and tail domains (PMID: 2577 ring the development and across ytes. Post-translational modificat phosphorylation sites have been nent assembly (PMID: 21219963).	e, various neurodegenerative diseases Isoforms Astrocytes express 10 different 26916), which means that they differ in molecul different subtypes of astrocytes. Not all isoform ions Intermediate filament proteins are identified in GFAP protein, at least some of Cellular localization GFAP localizes to
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For technical support and original validation data for this product please contact: T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using Coralite®594 GFAP antibody (CL594-60190, Clone: 4B2E10 ) at dilution of 1:200.