## CoraLite® Plus 488-conjugated GFAP proteintech Antibodies | ELISA kits | Proteins Monoclonal antibody www.ptglab.com

Catalog Number:CL488-60190 4 Publications

Basic Information	Catalog Number: CL488-60190	GenBank Accession BC013596	n Number:	Purification Method: Protein A purification	
	Size: 100ul , Concentration: 1000 µg/ml by	GenelD (NCBI): 2670		CloneNo.: 4B2E10	
	Nanodrop; Source:	UNIPROT ID: P14136		Recommended Dilutions: IF 1:50-1:200	
	Mouse Isotype: IgG2a Immunogen Catalog Number: AG10452	Full Name: glial fibrillary acid Calculated MW: 432 aa, 50 kDa	lic protein	Excitation/Emission maxima wavelengths: 493 nm / 522 nm	
Applications	Tested Applications:	Positive Controls:			
	IF, FC (Intra) Cited Applications: IF	IF : mouse brain tissue,			
	Species Specificity: human, mouse, rat, pig				
	Cited Species: rat, mouse				
Background Information	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. 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). Astrocytes express 10 different isoforms of GFAP that differ in the rod and tail domains (PMID: 25726916), which means that they differ in molecular size. Isoform expression varies during the development and across different subtypes of astrocytes. Not all isoforms are upregulated in reactive astrocytes. Intermediate filament proteins are regulated by phosphorylation. Six phosphorylation sites have been identified in GFAP protein, at least some of which are reported to control filament assembly (PMID: 21219963). GFAP localizes to intermediate filaments and stains well in astrocyte cellular processes. This antibody is conjugated with CL488, Ex/Em 488 nm/515 nm.				
Notable Publications	Author Pub	med ID Jou	ırnal	Application	
	Dawei Sun 344	.87578 J N	eurosci Res	IF	
	Hongyan Jiang 342	89379 Bra	in Res	IF	
	Naseer A Kutchy 354	.62907 Fro	ont Pharmacol	IF	
Storage	Storage: Store at -20°C. Avoid exposure to light. Stable for one year after shipment. Storage Buffer: PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.				
0	PBS with 50% Glycerol, 0.05% Proclin	n300, 0.5% BSA, pH	7.3.		
*** 20ul sizes contain 0.1% BSA	PBS with 50% Glycerol, 0.05% Proclin Aliquoting is unnecessary for -20°C s	n300, 0.5% BSA, pH torage	7.3.		

For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com in USA), or 1(312) 455-8498 (outside USA) W: ptglab.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 paraffin-embedded mouse brain tissue using CoraLite® Plus 488 GFAP antibody (CL488-60190, Clone: 4B2E10) at dilution of 1:100. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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1X10^6 Jurkat cells were intracellularly stained with 0.4 ug CoraLite® Plus 488 Anti-Human GFAP (CL488-60190, Clone:4B2E10) (red), or 0.4 ug Mouse IgG2a Isotype Control (CL488-66360-2, Clone: K11A1B2A2) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).