

À des fins de recherche uniquement

Anticorps Monoclonal anti-GFAP

Numéro de catalogue: CL488-60190

4 Publications



Informations de base

Numéro de catalogue: CL488-60190	Numéro d'acquisition GenBank: BC013596	Méthode de purification: Purification par protéine A
Taille: 100ul, Concentration: 1000 µg/ml by Nanodrop;	Identification du gène (NCBI): 2670	CloneNo.: 4B2E10
Hôte: Mouse	Nom complet: glial fibrillary acidic protein	Dilutions recommandées: IF 1:50-1:200
Isotype: IgG2a	MW calculé 432 aa, 50 kDa	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Immunogen Catalog Number: AG10452		

Applications

Applications testées: FC (Intra), IF	Contrôles positifs: IF : tissu cérébral de souris,
Demandes citées: IF	
Spécificité de l'espèce: Humain, porc, rat, souris	
Espèces citées: rat, souris	

Informations générales

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.

Publications notables

Autrice	Pubmed ID	Journal	Application
Dawei Sun	34487578	J Neurosci Res	IF
Hongyan Jiang	34289379	Brain Res	IF
Naseer A Kutchy	35462907	Front Pharmacol	IF

Stockage

Stockage:
Stocker à -20 °C. Éviter toute exposition à la lumière. Stable pendant un an après l'expédition.
Tampon de stockage:
PBS avec glycérol à 50 %, Proclin300 à 0,05 % et BSA à 0,5 %, pH 7,3.
L'aliquotage n'est pas nécessaire pour le stockage à -20C

*** Les 20ul contiennent 0,1% de BSA.

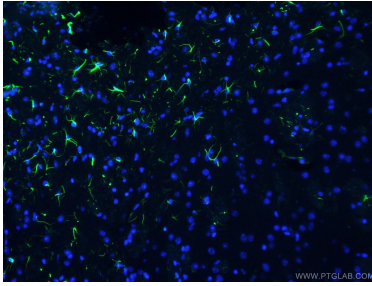
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)

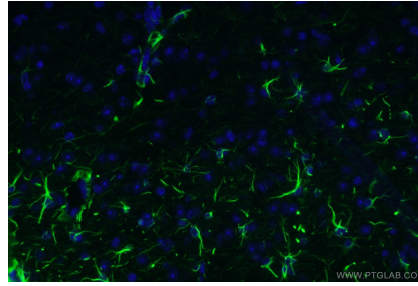
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

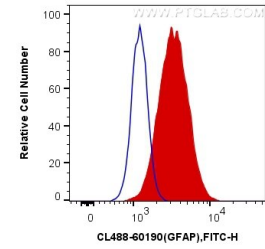
Données de validation sélectionnées



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using CL488-60190 (GFAP antibody) at dilution of 1:100.



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using CL488-60190 (GFAP antibody) at dilution of 1:100.



1X10⁶ 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).