À des fins de recherche uniquement

Anticorps Monoclonal anti-GFP tag

Numéro de catalogue:66002-1-lg 371 Publications



Informations de base

Numéro de catalogue:

66002-1-lg

Taille:

150ul , Concentration: 2000 μ g/ml by Nom complet:

Nanodrop:

Mouse

Isotype: lgG2a

Immunogen Catalog Number:

AG2128

Numéro d'acquisition GenBank:

U73901

Identification du gène (NCBI):

MW calculé

26 kDa

Méthode de purification: Purification par protéine A

CloneNo.: 1E10H7

Dilutions recommandées:

WB 1:20000-1:100000

IP 0.5-4.0 ug for IP and 1:1000-1:4000

for WB IF 1:20-1:200

Applications

Applications testées:

FC, IF, IP, WB, ELISA

Demandes citées:

ChIP, CoIP, FC, IF, IHC, IP, WB

Spécificité de l'espèce: Protéine recombinante

Espèces citées:

Humain, poisson-zèbre, porc, rat, souris

Contrôles positifs:

WB: GFP transgenic mouse brain tissue, Protéine

recombinante

IP: cellules HEK-293 transfectées,

IF: cellules HEK-293 transfectées.

Informations générales

Green fluorescence protein (GFP) is a protein composed of 238 amino acid residues (26.9kDa) derived from the jellyfish Aequorea Victoria which emits green light (emission peak at 509nm) when excited by blue light (excitation peak at 395nm). GFP, when exposed to light in the blue to ultraviolet spectrum, will show a bright green fluorescent light, making it a very useful tool in research. What is the molecular weight of GFP? 26.9 kDa How does GFP work? GFP was first isolated from the jellyfish Aequorea Victoria, a source of bioluminescence, in the 1960s and in 2008 the Nobel Prize in Chemistry was awarded "for the discovery and development of the green fluorescent protein, GFP" to Osamu Shimomura and colleagues, who recognized its potential in research (PMID: 13911999). A short amino acid sequence within the protein acts as the chromophore, which absorbs UV light at 395 nm and emits green light at 509 nm. Why is GFP a useful reporter? When GFP was sequenced in 1992 (PMID: 1347277) it allowed scientists to express it in other organisms using transgenic techniques. It does not require cofactors to work, is nontoxic to live cells, and is relatively small, making it ideal as a "tag" for other proteins, identifiable by shining a UV light and observing the green fluorescence. The tertiary folded structure of GFP forms a chromophore at the center of a barrel shape, which protects the fluorescence-emitting amino acid chain from solvents, meaning it can function in many environments (PMID: 9759496). What are the applications for GFP? When expressed attached to another protein, GFP can be used as a reporter gene to measure expression levels or can easily be used in fluorescence microscopy. It has been used to highlight proteins in a variety of model organisms, including bacteria, zebrafish, and

Publications notables

Autrice	Pubmed ID	Journal	Application
Yueke Lin	36178239	EMBO Rep	IP
Po-Hsun Wang	31632419	Front Plant Sci	
Yajie Chen	31570706	Cell Death Dis	

Stockage

Stockage:

Stocker à -20°C. Stable pendant un an après l'expédition.

Tampon de stockage:

PBS avec azoture de sodium à 0,02 % et glycérol à 50 % pH 7,3 L'aliquotage n'est pas nécessaire pour le stockage à -20C

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

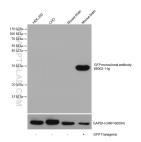
For technical support and original validation data for this product please contact:

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

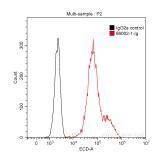
E: proteintech@ptglab.com W: ptglab.com

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

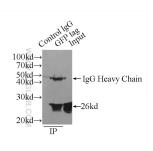
Données de validation sélectionnées



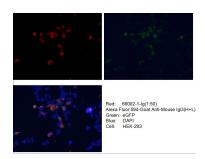
HEK293 cells, CHO cells, normal mouse brain and GFP transgenic mouse brain were subjected to SDS PAGE followed by western blot with 66002-1-lg (GFP tag antibody) at dilution of 1:200000 incubated at room temperature for 1.5 hours.



1X10^6 Transfected HEK-293 cells were stained with 0.2 ug Anti-GFP tag (66002-1-1g, Clone:1E10H7) and CoraLite®594-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), and 0.2 ug Control Antibody. Cells were fixed with 90% MeOH.



IP Result of anti-GFP tag (IP:66002-1-Ig, 4ug; Detection:66002-1-Ig 1:2000) with the vector plasmid pEGFP-N1 Transfected HEK-293 cells lysate 300ug.



Immunofluorescent analysis of Transfected HEK-293 cells using 66002-1-lg (GFP tag antibody) at dilution of 1:50 and Alexa Fluor 594-conjugated AffiniPure Goat Anti-Mouse IgG (H+L).