

For Research Use Only

# GFP tag Polyclonal antibody

Catalog Number: 50430-2-AP **831 Publications**



## Basic Information

<b>Catalog Number:</b> 50430-2-AP	<b>GenBank Accession Number:</b> M62653	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> P42212	<b>Recommended Dilutions:</b> WB: 1:1000-1:4000 IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IF-P: 1:50-1:500 IF/ICC: 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P42212	
<b>Isotype:</b> IgG	<b>Full Name:</b> GFP	
<b>Immunogen Catalog Number:</b> AG2128	<b>Calculated MW:</b> 26 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, IF-P, IP, ELISA	<b>Positive Controls:</b> WB : recombinant protein, Transfected HEK-293 cells IP : Transfected HEK-293T cells, IF-P : transgenic mouse brain tissue, IF/ICC : Transfected HEK-293 cells,
<b>Cited Applications:</b> WB, IHC, IF, IP, CoIP, ChIP, RIP, IP-MS	
<b>Species Specificity:</b> aequorea victoria, recombinant protein	
<b>Cited Species:</b> mouse, rat, pig, canine, yeast, escherichia coli, silkworm	

## Background Information

Green Fluorescent Proteins (GFPs) encompass a diverse range of proteins carrying a green chromophore, originating from various species and forming different protein lineages. Wildtype GFP consists of 238 amino acid residues (26.9 kDa). GFP was first identified in the jellyfish *Aequorea victoria*. It emits green light with a peak wavelength of 509 nm upon excitation by blue light at 395 nm. When fused with other proteins, GFP serves as a versatile reporter protein e.g. for quantifying expression levels or facilitates visualization of subcellular localization through fluorescence microscopy. This antibody is a rabbit polyclonal antibody, generated against the full-length eGFP protein. It exhibits reactivity towards variants of *Aequorea victoria* GFP, including S65T-GFP, RS-GFP, YFP, CFP, and eGFP.

## Notable Publications

Author	Pubmed ID	Journal	Application
Bin Li	28962583	Stem Cell Res Ther	IF
Chao Li	26317901	Oncotarget	
Yuqi Zhai	36168805	Open Biol	IP

## Storage

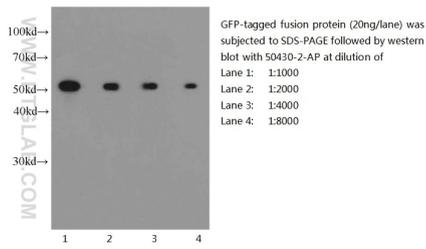
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

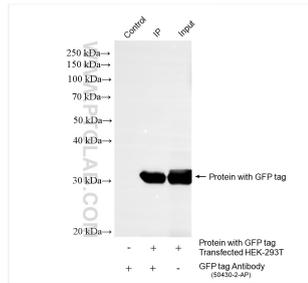
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

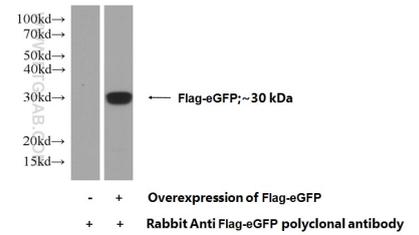
## Selected Validation Data



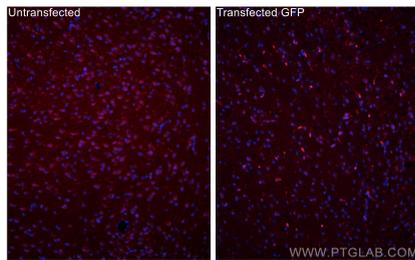
Western blot of eGFP-tagged fusion protein with anti-eGFP-tag (50430-2-AP) at various dilutions.



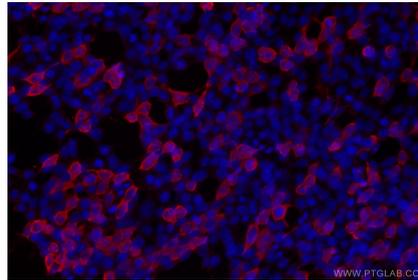
IP result of anti-GFP tag (IP:50430-2-AP, 4ug; Detection:50430-2-AP 1:10000) with Transfected HEK-293T cells lysate 400 ug.



Transfected HEK-293 cells were subjected to SDS PAGE followed by western blot with 50430-2-AP (GFP tag Antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded transgenic mouse brain tissue using GFP tag antibody (50430-2-AP) at dilution of 1:200 and CoraLite@594-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed Transfected HEK-293 cells using GFP tag antibody (50430-2-AP) at dilution of 1:200 and CoraLite@594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4).