GFP tag
Polyclonal ANTIBODY
Catalog Number: 50430-2-AP

Basic Information
Catalog Number: 50430-2-AP
Size: 61 μg/150 μl
Source: Rabbit
Isotype: IgG
Purification Method: Affinity purification
Immunogen Catalog Number: AG2128

GenBank Accession Number: AV473561
GeneID (NCBI): 26 kDa
Full Name: Observed MW:

Recommended Dilutions:
WB: 1:1000-1:4000
IP: 0.5-4.0 μg for IP and 1:2000-1:2000 for WB
IF: 1:20-1:200

Applications
Tested Applications:
IF, IP, WB, ELISA
Cited Applications:
IF, IHC, IP, WB
Species Specificity:
aequorea victoria, recombinant protein

Note: suggested antigen retrieval with TE buffer pH 9.0. (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information
Protein tags are protein or peptide sequences located either on the C- or N-terminal of the target protein, which facilitates one or several of the following characteristics: solubility, detection, purification, localization and expression. 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 has become an invaluable tool in cell biology research, since its intrinsic fluorescence can be visualized in living cells. EGFP contains the double-amino-acid substitutions Phe-64 to Leu and Ser-65 to Thr (previously published as GFPmut1; PMID: 8707053). In contrast to wtGFP, EGFP has a single, strong, red-shifted excitation peak at 488nm. GFPmut1 fluoresces 35-fold more intensely than wtGFP when excited at 488nm, due to an increase in its extinction coefficient (Em). This antibody is a rabbit polyclonal antibody raised against full-length eGFP and reactive against all variants of Aequorea victoria GFP such as S65T-GFP, RS-GFP, YFP, CFP and eGFP.

Notable Publications
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<th>Author</th>
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<th>Journal</th>
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<tr>
<td>Bin Li</td>
<td>28962583</td>
<td>Stem Cell Res Ther</td>
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<td>Chao Li</td>
<td>26317501</td>
<td>Oncotarget</td>
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<td>Maolin Ge</td>
<td>28854889</td>
<td>J Immunol</td>
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Storage
Store at -20ºC. Stable for one year after shipment.
Storage Buffer: FBS with 0.1% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20ºC storage

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


Immunofluorescent analysis of (30% Ethanol-) fixed Transfected HEK-293 cells using 50430-2-AP (GFP tag antibody) at dilution of 1:100 and Alexa Fluor 594-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).