For Research Use Only

HRP-conjugated aequorea victoria GFP tag Monoclonal antibody

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Catalog Number:HRP-66002 11 Publications

Basic Information

Catalog Number:
HRP-66002

Size:
1000 μg/ml

Source:
Mouse

Isotype:
IgG2a

GenBank Accession Number:
U73901

GeneID (NCBI):

Full Name:

Calculated MW:
26 kDa

Observed MW:
-

Purification Method:
Antigen affinity purification

CloneNo.:
1E10H7

Recommended Dilutions:
WB 1:5000-1:50000

Applications

Tested Applications:
WB

Cited Applications:
WB, IF, CoIP

Species Specificity:
recombinant protein, aequorea victoria

Cited Species:
human, mouse

Positive Controls:

WB : Recombinant protein,

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). The antibody recognizes the GFP-tag, eGFP tag, eYFP tag, CFP tag or YFP tag fused to either the amino- or carboxy-terminus of targeted proteins in transfected mammalian cells. This antibody is conjugated with HRP. Note: Do not add Azium (Sodium Azide or Smite) into the dilution buffer. Azium is the HRP inhibitor which decreases the enzymatic activity of HRP.

Notable Publications

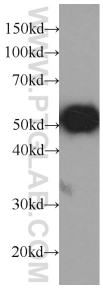
Author	Pubmed ID	Journal	Application
Shu-Yi Yang	31659125	Plant Physiol	
Zhihui Ruan	36274707	Front Microbiol	WB,CoIP
Xingyu Zhang	34018922	Elife	WB

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.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

Selected Validation Data



Recombinant protein were subjected to SDS PAGE followed by western blot with HRP-66002 (GFP tag Antibody) at dilution of 1:10000.