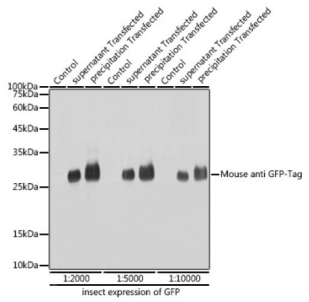
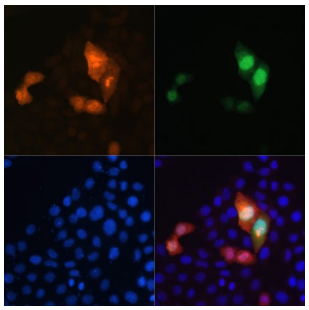
Green Fluorescent Protein (GFP) Antibody

Catalogue No.:abx005585



Western blot analysis of insect expressed GFP protein using Mouse anti GFP-Tag antibody at different dilution. Secondary antibody: HRP-conjugated Goat anti-Mouse IgG (H+L) at 1/10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Exposure time: 1s.



Immunoprecipitation of SERPINB1-Flag-GFP from 300 µg extracts of 293T cells transfected with a SERPINB1 expression vector containing a single N-terminal Flag-GFP-Tag was performed using 3 µg of Mouse anti GFP-Tag antibody. Mouse Control IgG was used to precipitate the Control IgG sample. IP samples were eluted with 1X Laemmli Buffer.The Input lane represents 10 % of the total input. Western blot analysis of immunoprecipitates was conducted using Rabbit anti DDDDK-Tag antibody at a dilution of 1/5000.

GFP-Tag Antibody is a Mouse Monoclonal antibody against GFP-Tag. 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.

Target:	Green Fluorescent Protein (GFP)
Clonality:	Monoclonal
Reactivity:	General
Tested Applications:	WB, IP
Host:	Mouse
Recommended dilutions:	WB: 1/10000 - 1/40000, IP: 0.5 µg - 4 µg antibody per 200 µg - 400 µg extracts of whole cells. Optimal dilutions/concentrations should be determined by the end user.
Conjugation:	Unconjugated

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Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 1-100 to the N-terminus of GFP protein.
Isotype:	IgG_1 Kappa
Form:	Liquid
Purification:	Purified by affinity chromatography.
Storage:	Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.
Molecular Weight:	Calculated MW: 27 kDa Observed MW: 27 kDa
Buffer:	PBS, pH 7.3, containing 0.05% Proclin-300, 50% glycerol.
Concentration:	> 0.2 mg/ml
Note:	THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.

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