Anti-GFP Antibody

R1312-2

Product Type:	Rabbit polyclonal IgG, primary antibodies
Species reactivity:	Species independent
Applications:	WB, ELISA, IP
Molecular Wt:	Predicted band size: 26 kDa

Description: Green fluorescence protein (GFP) is derived from the jellyfish Aequorea victoria, which emits green light (emission peak at a wavelength of 509 nm) when excited by blue light (excitation peak at a wavelength of 395 nm). GFP fluorescence is stable under fixation conditions and suitable for a variety of applications. It has been widely used as a reporter for gene expression, enabling researchers to visualize and localize GFP-tagged proteins within living cells without chemical staining.

Immunogen: Recombinant full length protein of Aequorea victoria GFP.

Positive control: GFP protein

Database links: SwissProt: P42212 Aequorea victoria

Recommended Dilutions:

WB	1:10,000
ELISA	1:10,000
IP	2-5 μg/ml.

Storage Buffer: 1*PBS (pH7.4), 0.2% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃ or -80℃. Avoid repeated freeze / thaw cycles.

Purity: Immunogen affinity purified.

Images

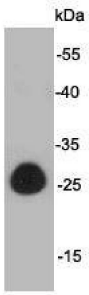

Fig1: Western blot analysis on GFP protein using rabbit polyclonal antibody.

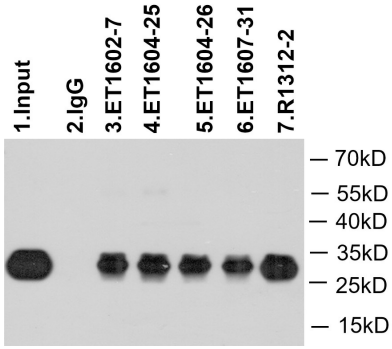

Fig2: GFP tag was immunoprecipitated in 5µg GFP Tag fusion protein lysate with R1312-2 at 2 µg/20 µl agarose. Western blot was performed from the immunoprecipitate using M1004-8 at 1/1000 dilution. Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1:20,000 dilution was used for 60 mins at room temperature.

Lane 1: GFP Tag fusion protein lysate (input).
Lane 2: Rabbit IgG instead of R1312-2 in GFP Tag fusion protein lysate.
Lane 3: ET1602-7 IP in GFP Tag fusion protein lysate.
Lane 4: ET1604-25 IP in GFP Tag fusion protein lysate.
Lane 5: ET1604-26 IP in GFP Tag fusion protein lysate.
Lane 6: ET1607-31 IP in GFP Tag fusion protein lysate.
Lane 7: R1312-2 IP in GFP Tag fusion protein lysate.

Blocking/Dilution buffer: 5% NFDM/TBST

Background References

1. "Primary structure of the Aequorea victoria green-fluorescent protein."Prasher D.C., Eckenrode V.K., Ward W.W., Prendergast F.G., Cormier M.J.Gene 111:229-233(1992)
2. "A molecular thermometer based on fluorescent protein blinking."Wong F.H., Banks D.S., Abu-Arish A., Fradin C.J. Am. Chem. Soc. 129:10302-10303(2007)