

# Anti-GFP Antibody [SP069-0]

ET1604-26



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Species independent
<b>Applications:</b>	WB, IF-Cell, IF-Tissue, IHC-P, IP
<b>Molecular Wt:</b>	27 kDa
<b>Clone number:</b>	SP069-0

**Description:** The green fluorescent protein (GFP) was originally identified as a protein involved in the bioluminescence of the jellyfish *Aequorea victoria*. GFP cDNA produces a fluorescent product when expressed in prokaryotic cells, without the need for exogenous substrates or cofactors, making GFP a useful tool for monitoring gene expression and protein localization in vivo. Several GFP mutants have been developed, including EGFP, which fluoresce more intensely than the wildtype GFP and have shifted excitation maxima, making them useful for FACS and fluorescence microscopy as well as double-labeling applications. GFP is widely used in expression vectors as a fusion protein tag, allowing expression and monitoring of heterologous proteins fused to GFP.

**Immunogen:** Recombinant full length protein of *Aequorea victoria* GFP.

**Positive control:** K562 cell lysates transfected with GFP.

**Database links:** SwissProt: P42212 *AequoreaVictoria*

#### Recommended Dilutions:

<b>WB</b>	1:1,000-1:10,000
<b>IF-Cell</b>	1:500-1:1,000
<b>IF-Tissue</b>	1:500-1:1,000
<b>IHC-P</b>	1:500-1:1,000
<b>IP</b>	2-5 µg/ml.

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

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

**Purity:** Protein A affinity purified.

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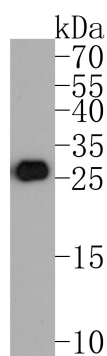
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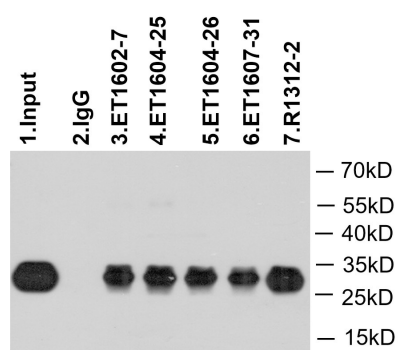
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## Images



**Fig1:** Western blot analysis of GFP on K562 cell lysates transfected with GFP.

Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody (ET1604-26, 1/1,000) was used in 5% BSA at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:5,000 dilution was used for 1 hour at room temperature.



**Fig2:** GFP tag was immunoprecipitated in 5 $\mu$ g GFP Tag fusion protein lysate with ET1604-26 at 2  $\mu$ g/20  $\mu$ l 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 ET1604-26 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

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

## Background References

1. Yu, H. et al. 2016. AAV-Mediated Gene Transfer to Dorsal Root Ganglion. *Methods in molecular biology* (Clifton, N.J.). 1382: 251-61.
2. Yamaoka, M. et al. 2016. PI3K regulates endocytosis after insulin secretion by mediating signaling crosstalk between Arf6 and Rab27a. *J. Cell. Sci.* 129: 637-49.

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