

# Anti-GFP Antibody [SY0243]

ET1607-31



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Species independent
<b>Applications:</b>	WB, IF-Cell, IF-Tissue, IP
<b>Molecular Wt:</b>	27 kD
<b>Clone number:</b>	SY0243

**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:** Synthetic peptide within *Aequorea victoria* GFP aa 1-50 / 238.

**Positive control:** GFP recombinant protein.

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

**Recommended Dilutions:**

<b>WB</b>	1:10,000
<b>IF-Cell</b>	1:50-1:200
<b>IF-Tissue</b>	1:50-1:200
<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.

Hangzhou Huaan Biotechnology Co., Ltd.

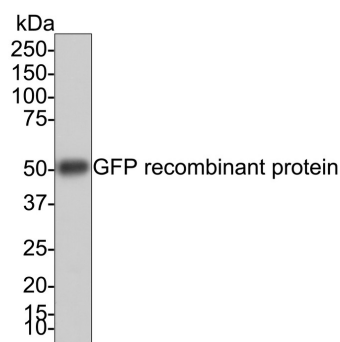
Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

华安生物  
HUABIO  
www.huabio.cn

## Images



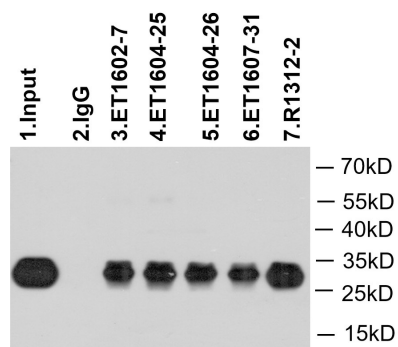
**Fig1:** Western blot analysis of GFP on GFP recombinant protein with Rabbit anti-GFP antibody (ET1607-31) at 1/10,000 dilution.

Lysates/proteins at 50 ng/Lane.

Exposure time: 30 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (ET1607-31) at 1/10,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:100,000 dilution was used for 1 hour at room temperature.



**Fig2:** GFP tag was immunoprecipitated in 5µg GFP Tag fusion protein lysate with ET1607-31 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 ET1607-31 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.

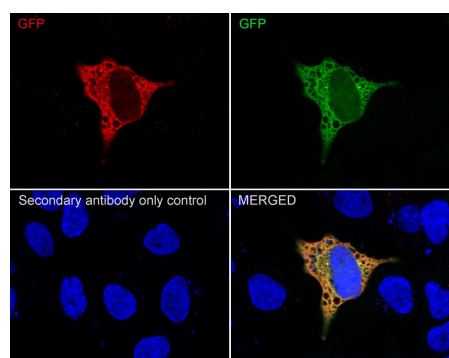
Lane 5: ET1604-26 IP in GFP Tag fusion protein lysate.

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

**Fig3:** Immunocytochemistry analysis of HeLa cells transfected with N-terminal GFP labeling GFP with Rabbit anti-GFP antibody (ET1607-31) at 1/500 dilution.



Cells were fixed in 4% paraformaldehyde for 20 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-GFP antibody (ET1607-31) at 1/500 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 594, HA1122) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Counterstained with GFP (green). Nuclear DNA was labelled in blue with DAPI.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

华安生物  
HUABIO  
www.huabio.cn

---

**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.

**Hangzhou Huaan Biotechnology Co., Ltd.**

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

 华安生物  
HUAABIO  
www.huabio.cn