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Anti-Green fluorescence protein (GFP), Rabbit Polyclonal Antibody

Catalog No.: PG-10009 **Quantity:** 100 μg **Applications:** ELISA, Western blot, IP
Antigen Species: Jellyfish *Aequorea victoria* **Reactivity:** Jellyfish *Aequorea victoria*
Host Species: Rabbit **Form:** Antigen affinity purified antibody

Target description

Green fluorescence protein (GFP) is a 27 kDa protein derived from the jellyfish *Aequorea victoria*, which emits green light (emission wavelength: 509 nm) when excited by blue light (excitation wavelength: 395 nm). GFP has become an invaluable tool in cell biology research, since its intrinsic fluorescence can be visualized in living cells. GFP fluorescence is stable under fixation conditions and suitable for a variety of applications. GFP has been widely used as a reporter for gene expression, enabling researchers to visualize and localize GFP-tagged proteins within living cells without the need for chemical staining.

Antigen

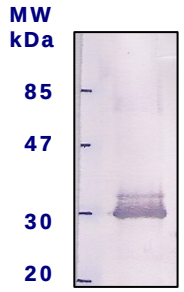
This polyclonal antibody was raised by immunizing rabbit with the entire GFP molecule (recombinant protein).

Applications

Western Blot analysis (WB): 1,000 ~ 3,000 dilution
ELISA: 2,000 ~ 20,000 dilution
IP: 500 ~ 1,000 dilution

Related Products

1. Anti-EGFP,Rabbit pAb (PG-10013)



Ab dilution : 25,000x

Western Blot Protocol

1. Protein sample run SDS-PAGE.
2. Bloting with semi-dry electrophoretic transfer system.
3. After transfering, rinse the transfer membrane with ddWater and let it dry.
4. Blocking transfer membrane with 5% skim milk, 0.2% sodium azide in TBS, incubate at 37℃ for at least 2 hrs or 4℃ O/N.
5. Wash the membrane with 0.05% Tween 20 in TBS (TBST).
6. Add primary Ab sol. and incubate at 37℃ for 1 hr. (Ab is diluted in 5% Goat serum/TBS)
7. Wash the membrane 3 times with TBST.
8. Add secondary Ab (Goat anti-rabbit IgG 3000X diluted in 5% Goat serum/TBS) and incubate at 37℃ for 1 hr.
9. Wash the membrane 3 times with TBST.
10. Wash the membrane with ddW.
11. Soak the membrane in BCIP/NBT substrate solution, after the color developed, wash with ddWater and let it dry.

Storage

It is supplied as antigen affinity purified antibody in lyophilized powder. Redissolve the powder with 100 microliter sterile water will restore to the original concentration 1mg/ml (1×PBS). Store at 4°C for short-term application. For long-term storage, aliquot and store at -20°C.