

# M5 GFP Rabbit Polyclonal Antibody 使用说明书

产品名称	单位	货号
M5 GFP Rabbit Polyclonal Antibody	50 $\mu$ l	MF090-T
M5 GFP Rabbit Polyclonal Antibody	100 $\mu$ l	MF090-01

## 【STORAGE】

Store at -20°C. Stable for one year from the date of shipment.

## 【BACKGROUND】

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.

## 【REFERENCES】

1. Prasher, D.C., et al. 1992. Primary structure of the *Aequorea victoria* green fluorescent protein. *Gene* 111: 229-233.
2. Chalfie, M., et al. 1994. Green fluorescent protein as a marker for gene expression. *Science* 263: 802-805.

## 【SOURCE】

This polyclonal antibody is produced by immunizing animals with a synthetic peptide (KLH-coupled) corresponding to the carboxy terminus of EGFP.

## 【SPECIFICITY】

GFP Antibody detects GFP and GFP fusion proteins.

## 【REACTIVITY】

All

## 【ISOTYPE】

Rabbit IgG

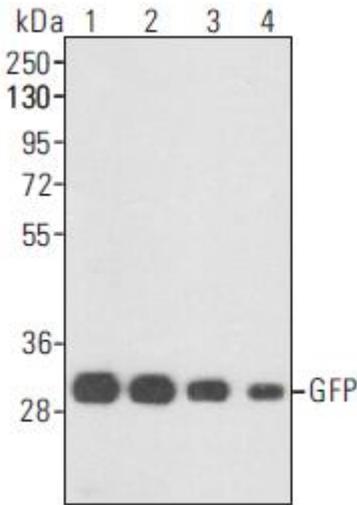
## 【IMPORTANT】

Use an anti-RABBIT secondary antibody to detect the GFP antibody.

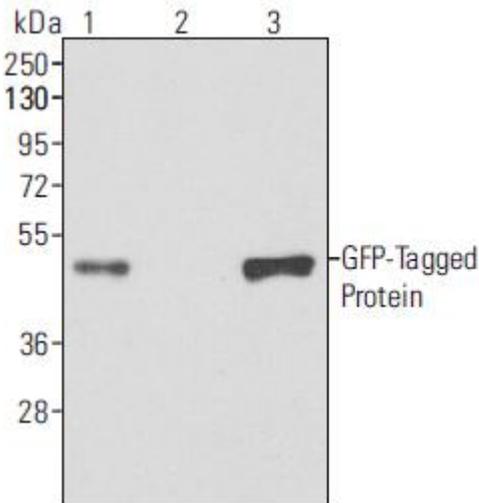
## 【RECOMMENDED ANTIBODY DILUTIONS】

Western blotting 1:5000  
Immunofluorescence 1:2000

For Western blots, incubate membrane with diluted antibody in 5% w/v nonfat dry milk, 1XTBS, 0.05% Tween-20 at 4°C with gentle shaking, overnight.

**【APPLICATION DATA】**

Western blot analysis of over-expressed GFP protein in COS7 cell lysate, using GFP rabbit polyclonal antibody. The antibody dilutions are 1:1000 (lane 1), 1:2000 (lane 2), 1:5000 (lane 3), 1:10000 (lane 4). Each lane was loaded with 10 µg of cell lysate.



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IP of extracts from COS7 cells transfected with a GFP-tagged protein using GFP rabbit polyclonal antibody (5 µl, lane 3) or using normal rabbit IgG (lane 2) as control, followed by Western blot using GFP (7G9) Mouse mAb (dilution: 1:5000). Lane 1 was loaded with 10 µg of COS7 cell lysate over-expressing a GFP-tagged protein.

**【备注】**

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