

#P30010

# GFP Antibody

□ 100 µl (20 Western mini-blot)



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## 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 Abmart 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.

## STORAGE

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

## REACTIVITY

All

## ISOTYPE

Rabbit IgG

## IMPORTANT

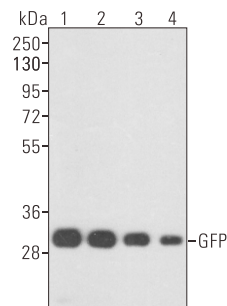
Use an **anti-RABBIT** secondary antibody to detect the GFP Antibody.

## RECOMMENDED ANTIBODY DILUTIONS

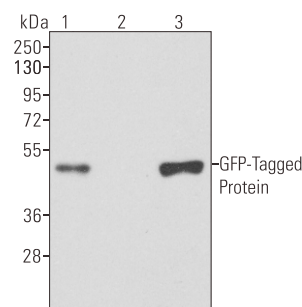
Western blotting	1:2000
Immunoprecipitation	1:100

**\* For Western blots, incubate membrane with diluted antibody in 5% w/v nonfat dry milk, 1× TBS, 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 (lane1), 1:2000 (lane2), 1:5000 (lane3), 1:10000 (lane4). Each lane was loaded with 10 µg of cell lysate.



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 Abmart GFP (7G9) Mouse mAb (dilution: 1:5000). Lane 1 was loaded with 10 µg of COS7 cell lysate over-expressing a GFP-tagged protein.

## COMPANION PRODUCTS

- #M20001 His-Tag (2A8) Mouse mAb
- #M20002 Myc-Tag (19C2) Mouse mAb
- #M20003 HA-Tag (26D11) Mouse mAb
- #M20004 GFP-Tag (7G9) Mouse mAb
- #M20007 GST-Tag (12G8) Mouse mAb
- #M20008 DYDDDDDK-Tag (3B9) Mouse mAb (Binds to same epitope as Sigma's Anti-FLAG® M2 Antibody)
- #M20012 Anti-Myc-Tag Mouse mAb (Agarose Conjugated)
- #M20013 Anti-HA-Tag Mouse mAb (Agarose Conjugated)
- #M20018 Anti-DYKDDDDK-Tag Mouse mAb (Agarose Conjugated) (Binds to same epitope as Sigma's Anti-FLAG® M2 Antibody)
- #M21002 Goat Anti-Rabbit IgG-HRP