

Aequorea victoria GFP antibody

Catalog Number: ATGA0148

PRODUCT INFORMATION

Catalog number

ATGA0148

Clone No.

AT2G5

Product type

Monoclonal Antibody

UnitProt No.

P42212

NCBI Accession No.

Alternative Names

Green fluorescent protein

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Aequorea victoria

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant GFP (1-238aa) purified from E. coli

Isotype

IgG2a kappa

Purification Note

By protein-G affinity chromatography

Application

ELISA, WB

Usage

The antibody has been tested by ELISA and Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid

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repeated freezing and thawing cycles.

BACKGROUND

Description

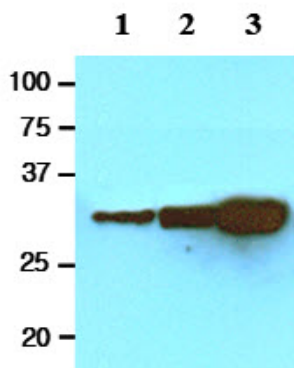
GFP, also known as green fluorescent protein, is a protein produced by the jellyfish (*Aequorea Victoria*) that emits bioluminescence in the green zone of the visible spectrum. GFP has become a useful and ubiquitous tool for making chimeric proteins, where it functions as a fluorescent protein tag. It has been expressed in most known cell types and is used as a noninvasive fluorescent marker in living cells and organisms. This protein enables a wide range of applications where it has functioned as a cell lineage tracer, reporter of gene expression, or as a measure of protein-protein interactions.

General References

- Phillips G (2001) FEMS Microbiol Lett 204(1):9-18.
- Tsien R (1998) Annu Rev Biochem 67:509-544.
- Prasher, et al., (1992) Gene 111(2):229-233.

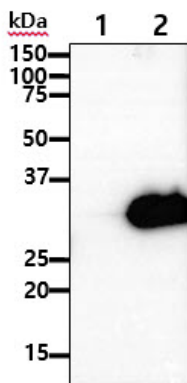
DATA

Western blot analysis (WB)



The recombinant proteins were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-GFP (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

- Lane 1.: Recombinant human GFP protein (20ng)
- Lane 2.: Recombinant human GFP protein (40ng)
- Lane 3.: Recombinant human GFP protein (80ng)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human GFP antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

- Lane 1.: 293T cell lysate
- Lane 2.: GFP transfected 293T cell lysate