

Monoclonal anti-GFP antibody (clone AT2G5)

Mouse IgG_{2a}, κ

Cat. No. IBATGA0148

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

NCBI Accession No.: P42212

Isotype: Mouse IgG_{2a} heavy chain and κ light chain

Clone: Anti-GFP mAb, clone AT2G5, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant GFP protein.

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.

Concentration: 1mg/ml

Form: Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol.

Storage: Can be stored at +4°C. For long term storage, aliquot and store at -20°C. Avoid repeated freezing and thawing cycles.

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.

Application: ELISA, WB

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



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Product information

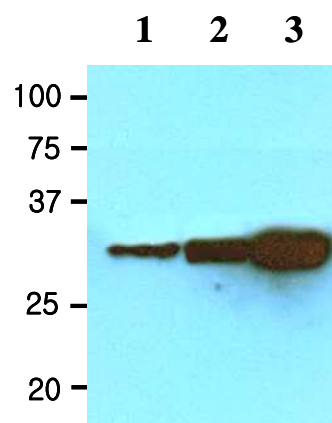
Western blot analysis

The recombinant protein GFP (20, 40 and 80ng) 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.: GFP 20ng

Lane 2.: GFP 40ng

Lane 3.: GFP 80ng

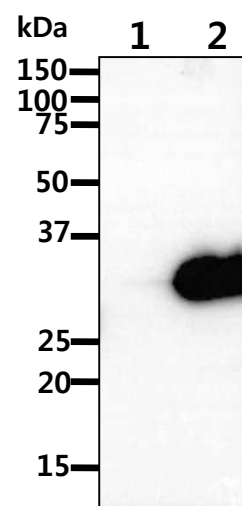


Western blot analysis

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



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.

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