

Affinity Gel-conjugated Rabbit anti GFP-Tag mAb {Anti-GFP □□□□}

Catalog No.: AE119

Basic Information

Observed MW

68kDa

Calculated MW

Category

Tag antibody

Applications

IP

Cross-Reactivity

Species independent

Background

The green fluorescent protein (GFP) is a protein composed of 238 amino acid residues (26.9 kDa) that exhibits bright green fluorescence when exposed to light in the blue to ultraviolet range. Although many other marine organisms have similar green fluorescent proteins, GFP traditionally refers to the protein first isolated from the jellyfish *Aequorea victoria*. The GFP from *A. victoria* has a major excitation peak at a wavelength of 395 nm and a minor one at 475 nm. Its emission peak is at 509 nm, which is in the lower green portion of the visible spectrum. The fluorescence quantum yield (QY) of GFP is 0.79. The GFP from the sea pansy (*Renilla reniformis*) has a single major excitation peak at 498 nm. GFP makes for an excellent tool in many forms of biology due to its ability to form internal chromophore without requiring any accessory cofactors, gene products, or enzymes / substrates other than molecular oxygen. In cell and molecular biology, the GFP gene is frequently used as a reporter of expression.

Recommended Dilutions

IP 20μl-40μl Affinity Gel for
100μg-300μg extracts of
whole cells

Immunogen Information

Gene ID

Swiss Prot

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 1-238 of GFP.

Synonyms

GFP;GFP tag;GFP-tag

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

Validation Data

Immunoprecipitation of GFP-Tag in 150 µg extracts from 293F cells transfected with GFP-Tag using 20 µl Affinity Gel-conjugated Rabbit anti GFP-Tag mAb (AE119). Western blot analysis was performed using HRP-conjugated Mouse anti GFP-Tag mAb (AE030) at 1:5000 dilution.

