

# Magnetic Beads-conjugated Rabbit anti GFP-Tag mAb

Catalog No.: AE118

## Basic Information

### Observed MW

Refer to figures

### Calculated MW

### Category

Tag antibody

### Applications

IP

### Cross-Reactivity

Species independent

### Conjugate

Magnetic Beads

## 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                      20 $\mu$ l-40 $\mu$ l Magnetic  
                             Beads for extracts of  
                             whole cell 100 $\mu$ g-300 $\mu$ g

## 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 0.09% Sodium azide, 50% glycerol, pH7.3.

## Validation Data

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Immunoprecipitation of SERPINB1-GFP in 150 µg extracts from 293F cells transfected with SERPINB1-GFP using 20 µl Magnetic Beads-conjugated Rabbit anti GFP-Tag mAb (AE118). Western blot analysis was performed using HRP-conjugated Mouse anti GFP-Tag mAb (AE030) at 1:5000 dilution.

