

# Magnetic beads Anti-GFP VHH Single Domain antibody

Catalog No.: AE079

7 Publications

## Basic Information

**Observed MW**

30kDa

**Calculated MW**

27kDa

**Category**

Tag antibody

**Applications**

IP, CoIP, RIP, ChIP

**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 499 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

**Binding Cap** 0.4 mg GFP protein/mL**CoIP** 500  $\mu$ L (20 reactions)**RIP** 500  $\mu$ L (20 reactions)**ChIP** 500  $\mu$ L (20 reactions)

## Immunogen Information

**Gene ID**

Swiss Prot

**Immunogen**

Recombinant protein of GFP.

**Synonyms**

GFP; GFP tag; GFP-tag

## Contact

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## Product Information

**Source**

Alpaca

**Isotype**

VHH

**Purification**

Affinity purification

**Storage**

Store at 4°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.03% NaN<sub>3</sub>, 20% ethanol.

Validation Data

Immunoprecipitation of GFP-Tag in 100 µg extracts from eukaryotic cells transfected with GFP expression vector containing GFP-tag with 35µL Anti-GFP (Nanobody) Magnetic Beads (AE079). Western blot analysis was performed using Rabbit anti GFP-Tag mAb (AE078) at 1:10000 dilution.

