

AE079

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Magnetic beads-conjugated anti-GFP VHH Single Domain antibody

Catalog No.: AE079

11 Publications

Basic Information

Observed MW

30kDa

Calculated MW

27kDa

Category

SMab Recombinant Monoclonal Antibody

Applications

IP,ChIP,RIP,CoIP

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 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 μ L (20 reactions)

RIP 500 μ L (20 reactions)

ChIP 500 μ L (20 reactions)

Immunogen Information

Gene ID

Swiss Prot

Immunogen

Recombinant protein of GFP.

Synonyms

GFP;GFP tag;GFP-tag

Contact



www.abclonal.com

Product Information

Source

Alpaca

Isotype

VHH

Purification

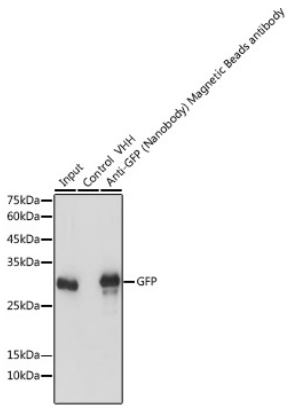
Affinity purification

Storage

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

Buffer: PBS with 0.03% NaN₃, 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.