

Magnetic beads-conjugated anti-GFP VHH Single Domain antibody

Catalog No.: AE079 11 Publications

Basic Information

Observed MW

30kDa

Calculated MW

27kDa

Category

Tag antibody

Applications

IP,CoIP,RIP,ChIP

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 μL (20 reactions)

RIP 500 μL (20 reactions)

ChIP 500 μL (20 reactions)

Immunogen Information

Gene ID Swiss Prot

Immunogen

Recombinant protein of GFP.

Synonyms

GFP;GFP tag;GFP-tag

Contact

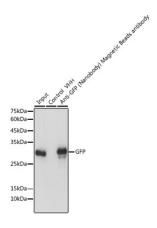
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Product Information

SourceIsotypePurificationAlpacaVHHAffinity purification

Storage

Store at 4°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.03% NaN3, 20% ethanol.



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