

Agarose beads-conjugated anti-GFP VHH Single Domain antibody

Catalog No.: AE074 **14 Publications**

Basic Information

Observed MW

30kDa

Calculated MW

27kDa

Category

Tag antibody

Applications

IP,CoIP,RIP,ChIP

Cross-Reactivity

Species independent

Conjugate

Agarose 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 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. It has been used in modified forms to make biosensors, and many animals have been created that express GFP, which demonstrates a proof of concept that a gene can be expressed throughout a given organism, in selected organs, or in cells of interest. GFP can be introduced into animals or other species through transgenic techniques, and maintained in their genome and that of their offspring. To date, GFP has been expressed in many species, including bacteria, yeasts, fungi, fish and mammals, including in human cells.

Recommended Dilutions

IP	30μl Anti-GFP(Nanobody) Agarose Beads antibody for 100μg extracts of recombinant protein
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

Source

Alpaca

Isotype

VHH

Purification

Affinity purification

Storage

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

Buffer: 0.03% sodium azide,20% ethanol

Validation Data

Immunoprecipitation analysis of 100 µg extracts of Eukaryotic expression of GFP using 30ul Anti-GFP(Nanobody) Agarose Beads antibody (AE074). Western blot was performed from the immunoprecipitate using Mouse anti GFP-Tag mAb (AE012) at a dilution of 1:10000

