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Magnetic beads-conjugated anti-GFP VHH Single Domain antibody

Catalog No.: AE079 **18 Publications**

Basic Information

Observed MW
30kDa/68KD

Calculated MW
27kDa

Category
Tag antibody

Applications
IP,ChIP,CoIP,RIP

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

ChIP	500 μL (20 reactions)
Binding Cap	0.4 mg GFP protein/mL
CoIP	500 μL (20 reactions)
RIP	500 μL (20 reactions)

Immunogen Information

Gene ID **Swiss Prot**

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms
GFP;GFP tag;GFP-tag

Contact

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Product Information

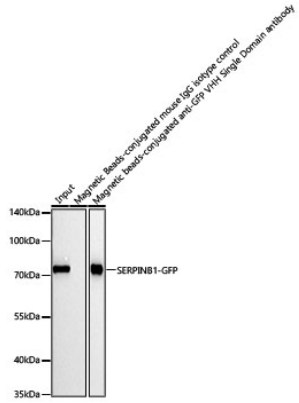
Source
Alpaca

Isotype
VHH

Purification
Affinity purification

Storage
Store at 4℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.02% sodium azide,25% glycerol,pH7.3.

Validation Data



Immunoprecipitation of SERPINB1-GFP from 200 µg extracts of 293T cells transfected with a SERPINB1 expression vector containing a single C-terminal GFP-Tag was performed using 40 µl of Magnetic beads-conjugated anti-GFP VHH Single Domain antibody (AE079). Magnetic Beads-conjugated mouse IgG isotype control (AC044N) was used to precipitate the Control IgG sample. IP samples were eluted with 1X Laemmli Buffer. The Input lane represents 10 % of the total input. Western blot analysis of immunoprecipitates was conducted using Mouse anti DDDDK-Tag mAb (AE005) at a dilution of 1 : 5000.