

Magnetic beads-conjugated anti-mCherry VHH Single Domain antibody

Catalog No.: AE094 **2 Publications**

Basic Information

Observed MW

Refer to Figures

Calculated MW

Category

Tag antibody

Applications

IP,ChIP,CoIP,RIP

Cross-Reactivity

Species independent

Background

mCherry is a monomeric, fluorescent, photostable red dye that was isolated from and further engineered from the *Discosoma* sea anemone. Its peak fluorescent excitation is at 587 nm and emission 610 nm. Fluorescent protein mCherry is frequently used as reporter and fusion tag. VHH or Nanobody is the next generation monoclonal antibody, which is a Single domain antibody reserving only one single antigen recognizing domain from camelid heavy chain antibody. With size of only ~ 15 kDa, Nanobody display numerous advantages over conventional antibody and its derivatives, such as higher tissue penetration capability, more accessible to hidden epitopes, higher stability, solubility and binding affinity. Anti-mCherry Nanobody Beads are magnetic agarose beads covalently coupled with VHH antibodies/nanobodies acquiring high specificity and affinity for mCherry. These nanobeads can efficiently capture and separate mCherry and mCherry tagged proteins from cell crudes or other samples.

Recommended Dilutions

IP	30ul antibody (bead slurry) for 200µg-400µg extracts of whole cells
ChIP	500 µL (20 reactions)
CoIP	500 µL (20 reactions)
RIP	500 µL (20 reactions)

Contact

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Immunogen Information

Gene ID

Swiss Prot

Immunogen

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

Synonyms

Product Information

Source

Alpaca

Isotype

VHH

Purification

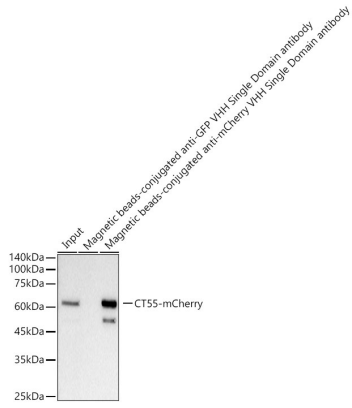
Affinity purification

Storage

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

Buffer: PBS with 0.02% sodium azide, 25% glycerol, pH7.3

Validation Data



Immunoprecipitation of CT55-mCherry from 300 µg extracts of 293T cells transfected with a CT55 expression vector containing a single C-terminal mCherry-Tag was performed using 30 µl of Magnetic beads-conjugated anti-mCherry VHH Single Domain antibody (AE094). Magnetic beads-conjugated anti-GFP VHH Single Domain antibody (AE079) was used to precipitate the Control 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 mCherry-Tag mAb (AE002) at a dilution of 1:2000.