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Magnetic beads-conjugated anti-mCherry VHH Single Domain antibody

Catalog No.: AE094 **1 Publications**

Basic Information

Observed MW
Refer to Figures

Calculated MW

Category
Tag antibody

Applications
IP,CoIP,RIP,ChIP

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, whichn is a Single domain antibody reserving only one single antigen recognizing domain from camelid heavy chain antibody. With size of only ~ 15 kDa, Nanobody dispay numberous advantages over conventional antibody and it's derivatives, such as higher tissue penetration capability, more accessble 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
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 mCherry.

Synonyms

Contact

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Product Information

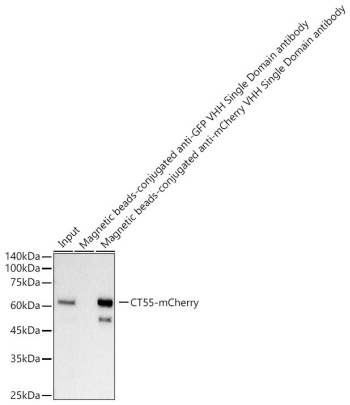
Source
Alpaca

Isotype
VHH

Purification
Affinity purification

Storage
Store at 4℃. Avoid freeze / thaw cycles.
Buffer: 0.03% NaN3,20% ethanol.

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.