

Smart-IP Series

Anti-HA-tag mAb-Magnetic Beads

CODE No. M180-11
CLONALITY Monoclonal
CLONE TANA2
ISOTYPE Mouse IgG2b κ
QUANTITY 20 tests (Slurry: 1 mL)

SOURCE Purified IgG from hybridoma supernatant
IMMUNOGEN KLH conjugated synthetic peptide, YPYDVDPDYA (HA-tag)
REACTIVITY This antibody reacts with N-terminal and C-terminal HA-tagged proteins.
FORMULATION 10 mg magnetic beads in 1 mL PBS/0.1% BSA/0.09% NaN₃

*Azide may react with copper or lead in plumbing system to form explosive metal azides. Therefore, always flush plenty of water when disposing materials containing azide into drain.

STORAGE This beads suspension is stable for one year from the date of purchase when stored at 4°C.

APPLICATION-CONFIRMED

Immunoprecipitation 50 μ L of beads slurry/sample

*The purification capacity of Anti-HA-tag mAb-Magnetic Beads varies depending upon the characteristics of a HA-tagged protein. For example, 50 μ L of beads slurry bounds 4.8 μ g of a HA-tagged protein (35 kDa).

APPLICATION-REPORTED

RNP immunoprecipitation Reference 3) and 4)

REFERENCES

- 1) Kato, K., *et al.*, *Nat. Commun.* **9**, 2448 (2018) [IP]
- 2) Shichino, Y., *et al.*, *Elife* **7**, e32155 (2018) [IP]
- 3) Eiken, H. M., *et al.*, *Nat. Commun.* **8**, 1574 (2017) [RIP]
- 4) Jeong, H. W., *et al.*, *Nat. Commun.* **8**, 726 (2017) [RIP]

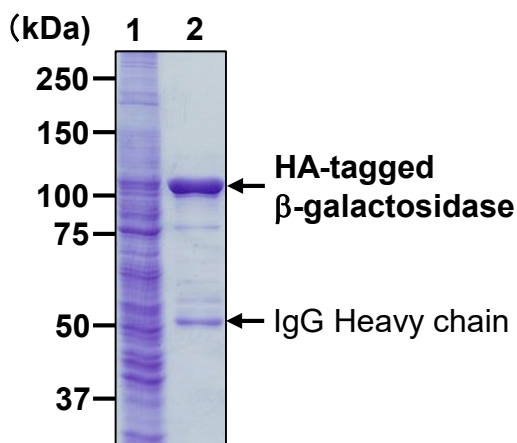
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Immunoprecipitation

- 1) Wash 1×10^7 cells 3 times with PBS and suspend with 1 mL of cold Lysis buffer [50 mM Tris-HCl (pH 7.5), 150 mM NaCl, 1% NP-40] containing appropriate protease inhibitors.
- 2) Centrifuge the tube at $12,000 \times g$ for 5 min. at 4°C and transfer the supernatant to another tube.
- 3) Add magnetic beads as suggested in the **APPLICATION** into 300 μL of the supernatant prepared in step 2). Mix well and incubate with gentle agitation for 1 hr. at 4°C .
- 4) Place the tube on the magnetic rack (MBL; code no. 3190) for a few seconds.
- 5) Remove the supernatant.
- 6) Add 1 mL of cold Wash buffer [50 mM Tris-HCl (pH 7.5), 150 mM NaCl, 0.05% NP-40] and resuspend the magnetic beads.
- 7) Place the tube on the magnetic rack for a few seconds.
- 8) Remove the supernatant.
- 9) Repeat Steps 6)-8) 3 times.
- 10) Resuspend the magnetic beads in 20 μL of Laemmli's sample buffer, boil for 5 min., and place the tube on the magnetic rack for a few seconds.
- 11) Load 20 μL of the sample per lane in a 1-mm-thick SDS-polyacrylamide gel and carry out electrophoresis.
- 12) Visualize the protein bands by CBB staining.



Immunoprecipitation of HA-tagged protein

Sample: HA-tagged β -galactosidase/293T whole cell lysate

Lane 1: Input (10 μL /lane)

Lane 2: Post-IP beads of Anti-HA-tag mAb (M180-11)