

Smart-IP Series

Anti-His-tag mAb-Magnetic Beads

CODE No.	D291-11
CLONALITY	Monoclonal
CLONE	OGHis
ISOTYPE	Mouse IgG2a κ
QUANTITY	20 tests (Slurry: 1 mL)
SOURCE	Purified IgG from hybridoma supernatant
IMMUNOGEN	6xHis-tagged protein
REACTIVITY	This antibody reacts with N-terminal, Internal and C-terminal His-tagged proteins.
FORMULATION	10 mg magnetic beads in 1 mL PBS/0.1% BSA/0.1% ProClin 150
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

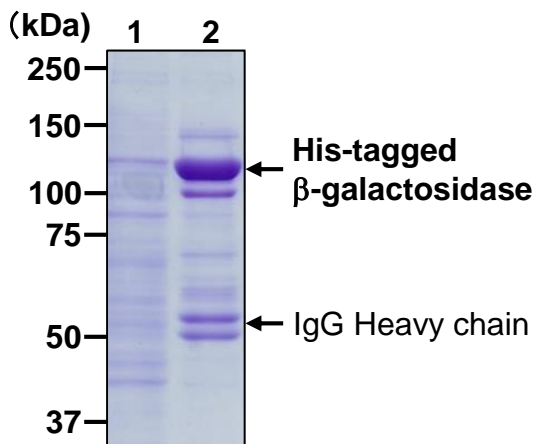
*The purification capacity of Anti-His-tag mAb-Magnetic Beads varies depending upon the characteristics of a His-tagged protein. For example, 50 μ L of beads slurry bounds 5.2 μ g of a His-tagged protein (35 kDa).

REFERENCE 1) Ogawa, M., *et al.*, *Molecules* **23**, E1745 (2018) [IP]

For more information, please visit our web site <https://ruo.mbl.co.jp/>.

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 His-tagged protein

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

Lane 1: Input (5 μL /lane)

Lane 2: Post-IP beads of Anti-His-tag mAb-Magnetic Beads (MBL, code no. D291-11)