For Research Use Only.
Not for use in diagnostic procedures.

Smart-IP Series

Anti-RFP mAb-Magnetic Beads

CODE No.	M165-11
CLONALITY	Monoclonal
CLONE	3G5
ISOTYPE	Mouse IgG1 κ
QUANTITY	20 tests (Slurry: 1 mL)
SOURCE	Purified IgG from hybridoma supernatant
IMMUNOGEN	RFP
REACTIVITY	This antibody reacts with DsRed, mRFP1, mCherry, mOrange and mPlum.
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 µL of beads slurry/sample

*The purification capacity of Anti-RFP mAb-Magnetic Beads varies depending upon the characteristics of an RFP fused protein. For example, 50 µL of beads slurry bounds 1.5 µg of DsRed protein.

REFERENCES

1) Södersten, E., *et al., Nat. Commun.* **9**, 1226 (2018) [IP]
2) Hao le, T., *et al., J. Neurosci.* **37**, 11559-11571 (2017) [IP]
3) Furlow, P. W., *et al., Nat. Cell Biol.* 17, 943-952 (2015) [IP]

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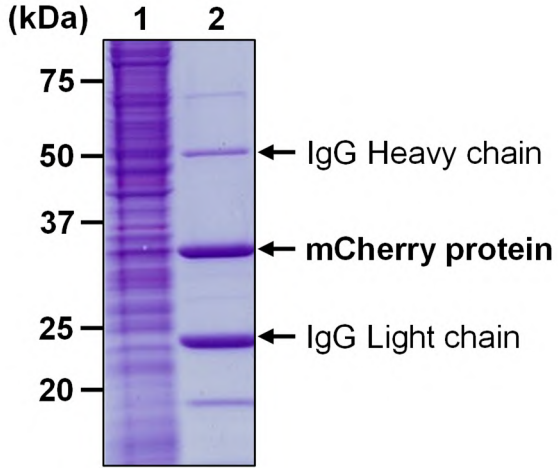
The descriptions of the following protocols are examples. Each user should determine the appropriate condition.

Immunoprecipitation

1) Wash 1 x 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 x 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) Wash the beads 4 times with 1 mL of cold Wash buffer [50 mM Tris-HCl (pH 7.5), 150 mM NaCl, 0.05% NP-40] (place the tube on the magnetic rack for a few seconds).
7) Resuspend the magnetic beads in 20 μL of Laemmli's sample buffer, boil for 2 min., and place the tube on the magnetic rack for a few seconds.
8) Load 20 μL of the sample per lane in a 1-mm-thick SDS-polyacrylamide gel and carry out electrophoresis.
9) Visualize the protein bands by CBB staining.



Immunoprecipitation of RFP (mCherry)

Sample: 293T cell lysate from 3x10^6 cells + mCherry protein* 10 μg
Lane 1: Input (10 μL/lane)
Lane 2: Post-IP beads of Anti-RFP mAb (M165-11)

*Sample was provided by RIKEN.