

Smart-IP Series

Anti-GFP (Green Fluorescent Protein) mAb -Magnetic Beads

CODE No.	D153-11
CLONALITY	Monoclonal
CLONE	RQ2
ISOTYPE	Rat IgG2a κ
QUANTITY	20 tests (Slurry: 1 mL)
SOURCE	Purified IgG from hybridoma supernatant
IMMUNOGEN	GFP purified from GFP expressed 293T cells
REACTIVITY	This antibody reacts with EBFp, ECFP, EGFP, Venus and Sapphire as well as GFP.
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-GFP (Green Fluorescent Protein) mAb-Magnetic Beads varies depending upon the characteristics of a GFP fusion protein. For example, 50 μ L of beads slurry bounds 4.2 μ g of a GFP fusion protein (32 kDa).

APPLICATION-REPORTED

RNP Immunoprecipitation (RIP) Reference 6)

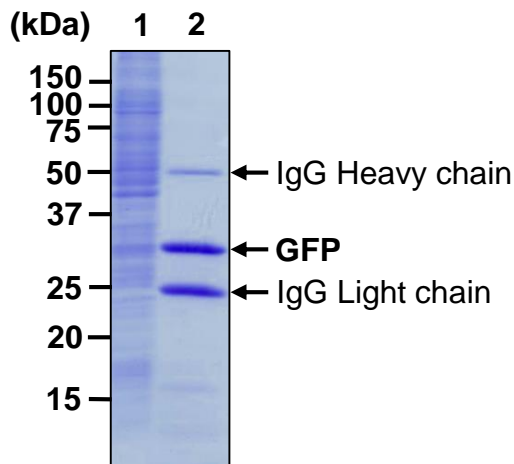
REFERENCES

- 1) Zhang, D., *et al.*, *Rice*. **11**, 45 (2018) [IP]
- 2) Jessen, T. N. and Jessen, J. R., *Exp. Cell Res.* **361**, 265-276 (2017) [IP]
- 3) Aoyama, S., *et al.*, *Biochem. Biophys. Res. Commun.* **491**, 33-39 (2017) [IP]
- 4) Chen, C. C., *et al.*, *J. Biol. Chem.* **292**, 12560-12576 (2017) [Co-IP]
- 5) Amara, C. S., *et al.*, *Front. Cell Dev. Biol.* **5**, 20 (2017) [IP]
- 6) Sommer, G., *et al.*, *PLoS One* **12**, e0173246 (2017) [RIP]
- 7) Wang, Y., *et al.*, *Plant Physiol.* **173**, 1235-1246 (2016) [IP]

For more information, please visit our web site <http://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** and purified GFP protein 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 2 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 GFP protein

Sample: 293T cell lysate from 3×10^6 cells + GFP protein 10 μg

Lane 1: Input (5 $\mu\text{L}/\text{lane}$)

Lane 2: Post-IP beads of Anti-GFP mAb (M153-11)