

Smart-IP Series

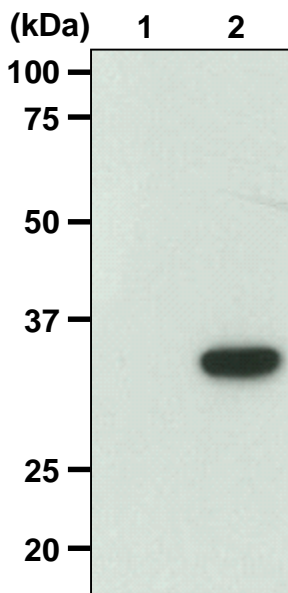
Anti-GFP (Green Fluorescent Protein) mAb -Magnetic Agarose

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|------------------------------|--|
| CODE No. | D153-10 |
| CLONALITY | Monoclonal |
| CLONE | RQ2 |
| ISOTYPE | Rat IgG2a κ |
| QUANTITY | 20 tests (Gel: 200 μ L) |
| SOURCE | Purified IgG from hybridoma supernatant |
| IMMUNOGEN | GFP purified from GFP expressed 293T |
| REACTIVITY | This antibody reacts with GFP, EBFP, ECFP, EGFP, Venus and Sapphire. |
| FORMULATION | 100 μ g of antibody is covalently coupled to 200 μ L of magnetic agarose gel and provided as 400 μ L gel slurry suspended in PBS/0.1% ProClin 150 |
| STORAGE | This gel slurry is stable for one year from the date of purchase when stored at 4°C. |
| APPLICATION-CONFIRMED | |
| <u>Immunoprecipitation</u> | 10 μ L of gel/400 μ L of cell extract from 2×10^6 cells |
| REFERENCES | <ol style="list-style-type: none">1) Yeom, J., <i>et al.</i>, <i>Mol. Cell</i> 66, 234-246.e5 (2017) [IP]2) Yasuda, S., <i>et al.</i>, <i>Mol. Plant</i>. 10, 605-618 (2017) [Co-IP]3) Oh, E. T., <i>et al.</i>, <i>Nat. Commun.</i> 7, 13593 (2016) [IP]4) Cai, L., <i>et al.</i>, <i>J. Biol. Chem.</i> 286, 35915-35921 (2011)5) Sato, Y., <i>et al.</i>, <i>J. Biol. Chem.</i> 284, 11873-11881 (2009)6) Sakurai, T., <i>et al.</i>, <i>J. Cell Biol.</i> 183, 339-352 (2008) |

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Immunoprecipitation

- 1) Wash 2×10^6 cells 3 times with PBS and suspend them in 400 μ L of cold Lysis buffer [50 mM Tris-HCl (pH 7.5), 150 mM NaCl, 0.05% NP-40], then sonicate briefly (up to 20 sec.).
- 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 400 μ L of the cell lysate. Mix well and incubate with gentle agitation for 30 min. 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 Lysis buffer 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) 4 times.
- 10) Resuspend the magnetic beads in 50 μ L of Laemmli's sample buffer, boil for 3 min., and place the tube on the magnetic rack for a few seconds.
- 11) Load 10 μ L of the sample per lane in a 1-mm-thick SDS-polyacrylamide gel (12.5% acrylamide) and carry out electrophoresis.
- 12) Blot the protein to a polyvinylidene difluoride (PVDF) membrane at 1 mA/cm² for 1 hr. in a semi-dry transfer system (Transfer Buffer: 25 mM Tris, 190 mM glycine, 20% Methanol). See the manufacturer's manual for precise transfer procedure.
- 13) To reduce nonspecific binding, soak the membrane in 10% skimmed milk (in PBS, pH 7.2) overnight at 4°C.
- 14) Incubate the membrane with 1:5,000 of Anti-GFP pAb-HRP-DirecT (MBL; code no. 598-7) diluted with 1% skimmed milk (in PBS, pH 7.2) PBS for 1 hr. at room temperature. (The concentration of antibody will depend on the conditions.)
- 15) Wash the membrane with PBS-T (0.05% Tween-20 in PBS) (5 min. x 3 times).
- 16) Wipe excess buffer on the membrane, then incubate it with appropriate chemiluminescence reagent for 1 min. Remove extra reagent from the membrane by dabbing with paper towel, and seal it in plastic wrap.
- 17) Expose to an X-ray film in a dark room for 1 min. Develop the film as usual settings. The condition for exposure and development may vary.



Immunoprecipitation of GFP-fusion protein

Lane 1: Parental cell (293T)
Lane 2: GFP-fusion protein/293T

Immunoblotted with Anti-GFP pAb-HRP-DirecT (MBL; code no. 598-7)