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

A JSR Life Sciences Company

*Smart-IP Series*

# Mouse IgG1 (isotype control) -Magnetic Beads

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| **CODE No.** | M075-11 |
| **CLONALITY** | Monoclonal |
| **CLONE** | 2E12 |
| **ISOTYPE** | Mouse IgG1 κ |
| **QUANTITY** | 20 tests (Slurry: 1 mL) |
| **SOURCE** | Purified IgG from hybridoma supernatant |
| **IMMUNOGEN** | KLH |
| **REACTIVITY** | No specific binding is detected on immunoprecipitation. |
| **FORMULATION** | Covalently antibody conjugated 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**

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| Immunoprecipitation | 50 µL of beads slurry/sample |

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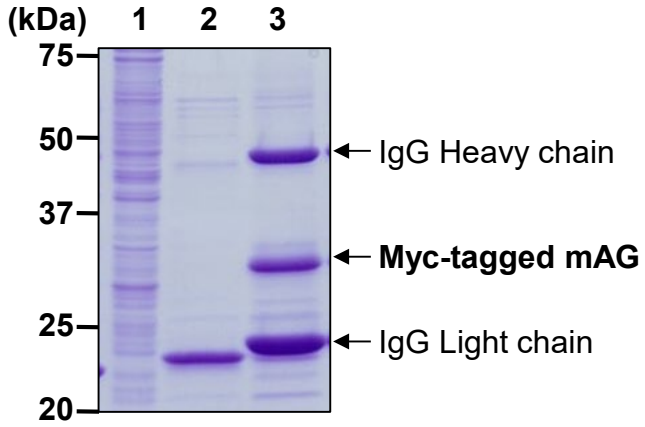
The descriptions of the following protocols are examples. Each user should determine the appropriate condition.

## Immunoprecipitation

1) Wash 2 x $10^6$ cells 3 times with PBS and suspends them in 500 μL of cold Extraction buffer [50 mM Tris-HCl (pH 7.5), 150 mM NaCl, 1% NP-40].
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 500 μL 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) 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 3 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 Myc-tagged protein***

Sample: HEK293T cell lysate from 2 x$10^6$ cells + Myc-tagged mAG 10 μg
Lane 1: Input (10 μL/lane)
Lane 2: Post-IP beads of Mouse IgG1 (isotype control)-Magnetic Beads (M075-11)
Lane 3: Post-IP beads of Anti-Myc-tag mAb-Magnetic Beads (M047-11)