

Bioepitope^R protein G agarose IP Reagent

| CATALOG NUMBER: BD0047 | | | | |
|------------------------|--|--|--|--|
| QUANTITY: | 2ml | | | |
| DESCRIPTION: | Protein G is provided as an agarose conjugate for use in immunoprecipitation only. The product is provided as 0.5 ml agarose in 2.0 ml PBS.Protein G-Agarose is pre-blocked with BSA to reduce non-specific immunoglobulin binding. Sufficient product is provided for 100 immunoprecipitation reactions, to be used at 20 µl resuspended volume per reaction. | | | |
| SPECIFICITY: | Protein G -Agarose is suitable for immunoprecipitation of mouse IgG1,IgG2a, IgG2b and IgG3, rat IgG1, IgG2a, IgG2b and IgG2c, rabbit and goat polyclonal Abs, and human IgG1, IgG2, IgG3 and IgG4 | | | |
| FORMAT: | PBS,0.5ML agarose | | | |
| STORAGE: | Store at 4° C, do not freeze; stable for one year from the date of shipment. | | | |
| PROCEDURE: | • Incubate cultured cells (80–90% confluent monolayer in 100 mm cell culture plate, or approximately 2–5 x 107 suspension cells in flask) in methionine-free medium containing 5% dialyzed fetal calf serum for 1 hour at 37° C. The same procedure can be used for cells labeled with other radioactive amino acids (e.g., 14C or 3H) or with γ 32P-orthophosphate. Cell labeling must be carried out in medium lacking the relevant amino acid or in phosphate-free medium. | | | |
| | • Remove medium and replace with 3 ml methionine-free medium containing 5% dialyzed fetal calf serum and 100 μ Ci/ml 35S-methionine. Incubate 1 hour at 37° C. For some proteins a longer labeling period (up to 18 hours) is preferable. | | | |
| | Carefully remove radioactive medium with Pasteur pipette and wash cell monolayer with PBS. | | | |
| | • Add 3 ml ice cold RIPA buffer to cell monolayer and incubate at 4° C for 10 minutes. For suspension cells, add the RIPA buffer to washed cell pellet in a 15 ml conical centrifuge tube. | | | |
| | • Disrupt cells by repeated aspiration through a 21 gauge needle and transfer to a 15 ml conical centrifuge tube. | | | |
| | • Wash cell culture plate with additional 1.0 ml ice cold RIPA buffer and combine with original extract. | | | |
| | • Pellet cellular debris by centrifugation at 10,000xg for 10 minutes at 4° C. Transfer supernatant to a fresh 15 ml conical centrifuge tube on ice. Preclear lysate (optional step) by adding 1.0 μ g of the appropriate control IgG (normal mouse, rat, rabbit or goat IgG, corresponding to the host species of the primary antibody), together with 20 μ l of resuspended volume of Protein G-Agarose. | | | |

PRODUCT DATA SHEET

Incubate at 4° C for 30 minutes.

• Pellet beads by centrifugation at 2,500 rpm (approximately 1,000xg) for 5 minutes at 4° C. Transfer supernatant (cell lysate) to a fresh 15 ml conical centrifuge tube on ice.

• Transfer 1 ml of the above cell lysate, or approximately 100–500 μ g total cellular protein, to a 1.5 ml microcentrifuge tube. Add 1–10 μ l (i.e., 0.2–2 μ g) primary antibody (optimal antibody concentration should be determined by titration) and incubate for 1 hour at 4° C.

• Add 20 µl of resuspended volume of Protein A-Agarose. Cap tubes and incubate at 4° C on a rocker platform or rotating device for 1 hour to overnight.

• Collect immunoprecipitates by centrifugation at 2,500 rpm (approximately 1,000xg) for 5 minutes at 4° C. Carefully aspirate and discard radioactive supernatant.

• Wash pellet 4 times with 1.0 ml RIPA buffer (more stringent) or PBS (less stringent), each time repeating centrifugation step above.

• After final wash, aspirate and discard supernatant and resuspend pellet in

40 µl of 1x electrophoresis sample buffer.

• Boil samples for 2–3 minutes and analyze 20 µl aliquots by SDS-PAGE and

autoradiography. Unused samples may be stored at -20° C.

• Optional: After boiling, samples may be centrifuged to pellet the agarose

beads followed by SDS-PAGE analysis of the supernatant.

RESEARCH USE: For research use only, not for use in diagnostic procedures.

IMMUNOPRECIPITATION REAGENTS:

| PRODUCT | SPECIFICITY | CAT. # | AMOUNT |
|---------------------|-----------------------------------|--------|--------|
| | mouse IgG2a, IgG2b and IgA | | |
| protein A agarose | rabbit polyclonal Abs | BD0046 | 2ML |
| | human IgG1, IgG2 and IgG4 | | |
| Protein G Agarose | mouse IgG1, IgG2a, IgG2b and IgG3 | | |
| | rat IgG1, IgG2a, IgG2b and IgG2c | BD0047 | 2ML |
| T TOLEIN O Agalose | rabbit and goat polyclonal Abs | | |
| | human IgG1, IgG2, IgG3 and IgG4 | | |
| Protein A+G Agarose | all of the above Abs | BD0048 | 2ML |

Bioworld Technology CO., Ltd. 8201 Central Ave NE Suite O Minneapolis, MN 55432 USA. Tel: 6123263284 www.bioworlde.com Orders: order@bioworlde.com Support: support@bioworlde.com