

101Bio Protein A+G Agarose Beads

Cat. #: W0349 (1 ml)

Shipping and Storage: Ship and stored at 2-8°C in 20% ethanol. Do not freeze

Shelf Life: 12 months

Product Description:

This product is Protein A and Protein G covalently cross-linked to Agarose beads, supplied as a suspension in 20% ethanol 50:50. This product contains 1ml protein A+G agarose and 1ml 20% ethanol solution, which is 50% suspension medium. It can be used for immunoprecipitation (IP) or co-immunoprecipitation (Co-IP). IP antibodies include Mouse IgG1, IgG2a, IgG2b, IgG3, IgA; Rat IgG1, IgG2a, IgG2b, IgG2c; Rabbit IgG, Rabbit and Goat polyclonal Abs, as well as Human IgG1, IgG2, IgG3, and IgG4. This product can also be used for antibody purification. This product is for research use only.

Product Contents (store at 2-8°C)

Component	Amount
101Bio Protein A+G Agarose	1 ml

Note:

1. This product is stored in 20% ethanol at 2-8°C. Before use, take it out from low temperature, and let it warm up to room temperature before packing in column to avoid bubbles.
2. Before use, invert several times to mix thoroughly.

Protocol:

I. Immunoprecipitation (IP)

1. Protein sample preparation.
 - 1.1. For cell samples, wash the cells once with 1 x PBS. Follow the protocol of our P501 kit to extract cell protein.
 - 1.2. For tissue samples, follow the protocol of our P502 kit to extract cell protein.

Note: If the protein concentration is too high, dilute with PBS; if the protein concentration is too low, reduce the amount of lysis buffer.
2. Take 200 µg to 1 mg protein extract, mixed with 0.2 µg to 2 µg of purified antibody, and shake slowly on shaker at 4°C overnight.
3. Take 20-40 µl of fully resuspended Protein A+G Agarose to a new 1.5 ml centrifuge tube and centrifuge briefly. Carefully aspirate and discard the supernatant.
4. Wash the Protein A+G Agarose with 500 µl of 1xPBS, centrifuge briefly, and carefully discard the supernatant. Repeat this step twice.

5. Add the antigen-antibody complex of step 2 to the washed Protein A+G Agarose from step 4, and incubate 1-3 hours at 4 °C. Centrifuge briefly and carefully aspirate the supernatant.
6. Wash with 500 µl of 1×PBS, centrifuge briefly, and carefully discard the supernatant. Repeat this step 2 twice.
7. Add 20-40 µl 2×SDS-PAGE electrophoresis loading buffer to the pellet, vortex to resuspend the pellet, and briefly centrifuge to collect the sample at the bottom of the tube.
8. Boiled the protein for 5 minutes, centrifuge briefly, and take some or all of the supernatant to do SDS-PAGE electrophoresis or Western Blot et al. Temporarily unused sample can be stored at -20°C

II. Co-Immunoprecipitation (Co-IP)

Refer to immunoprecipitation protocol. But co-immunoprecipitation (CO-IP) requires the use of fresh protein that have not been frozen before. Usually immunoprecipitation can use frozen protein samples, but using fresh protein samples gives good.

Related products

Cat.#	Kit Name	Application	Protein Status	Minute
P501	Total protein kit	cells → total protein	denatured / native	1 ~ 8
P502	Total protein kit	tissues → total protein	denatured / native	1 ~ 8
P503	Membrane protein kit	cells / tissues → membrane protein	native , detergent-free	20 ~ 45
P504	Nuclear protein kit	cells / tissues → nuclear & cytosol protein	native	6 ~ 8
P505	Detergent-free kit	cells → total protein	denatured / native	5 ~ 8
P506	Detergent-free kit	Tissues → total protein	denatured / native	5 ~ 8
P507	Mitochondria kit	cells / tissues → mitochondria	native, detergent-free	25 ~ 30
P508	Plant total protein	plant tissues → total protein	denatured/native	5 ~ 8
P510	Plant detergent-free	plant tissues → total protein	native	6 ~ 8
P511	Plant chloroplast kit	plant tissues → intact chloroplast		5
P518	Plant Microsomal Membrane	plant tissues → microsomal membrane	native	1 hr
P512	Bacteria total protein	bacteria → total protein	denatured	2 ~ 3
P513	Nuclear envelope kit	cells → nuclear envelope	native	< 45
P514	Histone/DNA binding protein	cells → histone & dna binding protein	denatured	< 10
P515	Thick cell wall microbes	microbes → total protein	denatured / native	< 10
P516	Detergent-free thick cell wall	microbes → total protein	denatured / native	10
P517	Yeast Mitochondria	yeast → mitochondria	native	60
P518	Plant Microsomal Membrane	plant → microsomal membrane	native	60
P519	Gel slice recovery kit	PAGE gel → protein	denatured / native	10 ~ 20
P521	Hair & nail protein kit	hair, nail → protein	denatured	5 min. hands on
P522	Adipose protein kit	adipose → total protein	denatured / native	20
P523	Adipose fractionation	adipose → water soluble/insoluble protein	native	40

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