

Biotin-Protein G (Cat. No. M00096)

Size: 1 mg in 1 ml of storage buffer.

Molar Ratio of Biotin/Protein G: 7~10:1.

Concentration: 1 mg/ml in PBS (pH 7.4) containing 10 mg/ml BSA and 0.02% sodium azide.

Description: Protein G, a cell surface protein from Group G *streptococci*, binds strongly and specifically to the Fc region of immunoglobulin molecules, particularly IgG. It contains three high-affinity binding sites that are capable of interacting with the Fc region of IgG in humans, rabbits, mice, cows, goats, sheep, and other species. Biotin-Protein G, which is produced by covalently linking biotin to protein G, can be used in immunodetections, such as immunoblotting (western or dot blot), ELISA, and immunohistochemistry.

Storage: Store at 4°C for short periods of time, one month or shorter. Aliquot and store at -20°C for longer periods. Avoid repeated freeze/thaw cycles. Prolonged storage may result in slight precipitation, so clarify the solution by centrifugation before use.

Working Dilution: Working concentrations for specific applications should be determined by titration assay. The chart below may serve as a useful guideline, but primary antibody, temperature, incubation time, the amount of antigen, and the sensitivity of the detection methods can all affect the ideal working concentration.

Dot blot: 1:2,000-1:50,000

Western blot: 1:2,000-1:50,000

ELISA: 1:50,000-1:200,000

Other: user-optimized.

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