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Protein G Magnetic Beads

Cat.# PT-CZ-1015 (1 mL, 10mL, 50mL)

Description: Protein G Magnetic Beads are affinity-based magnetic particles designed for the selective capture, isolation, and purification of immunoglobulins and Fc-containing proteins.

IgG Affinity Specificity: Human IgG1,IgG2,IgG3, IgG4, mouse IgG1, IgG2a , IgG2b, IgG3 and rat IgG2a.

Binding Capacity: 1ml of beads suspension binds to 1mg of IgG.

Storage conditions: Long term storage at 2–8 °C.

Purity: Protein G >90% by SDS-PAGE gel

Concentration: 30-40ug dried beads/1ml beads suspension

Settled Volume: 250-300ul beads/ml suspension

Formulation: 0.1% BSA, 0.02% NaN3, 1X PBS pH7.4

Product Source: Protein G was expressed in E. coli.

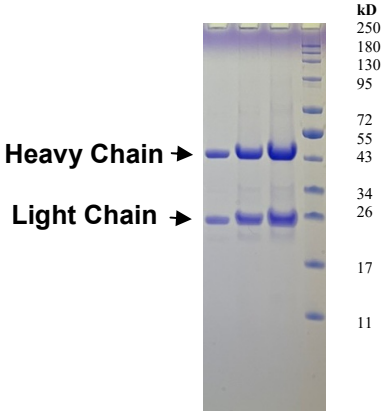


Figure 1. Beads IgG binding capacity on SDS PAGE gel in reduced condition.
Lane 1. 5ul loading
Lane 2. 15ul loading
Lane 3. 30ul loading
Lane 4. Protein Ladder
Binding/wash buffer: PBS pH7.4
IgG elution buffer: 0.1M citric acid pH2,
Neutralization buffer: 1 M Tris-HCl, pH 8.5
Please use Magnetic Separation Rack (PT-Mag-Rack02) to fast separation of beads and solution to avoid low-pH damage to antibody.

Application:
antibody purification; immunoprecipitation;antibody enrichment; immunoassays; protein interaction studies; and other applications requiring efficient isolation or immobilization of Fc-containing molecules.

Reference:
1. Akerström, B., & Björck, L. (1986). A physicochemical study of protein G, a molecule with unique immunoglobulin G-binding properties. Journal of Biological Chemistry, 261(22), 10240–10247.