

HRP-Protein G (Cat. No. M00090)

Size: 1 mg.

Molar Ratio of HRP/Protein G: 2:1.

Concentration: 1 mg, lyophilized with PBS, pH 7.4, containing 1% BSA and 0.01% Thimerosal.

Description: Protein G, a cell surface protein of Group G *streptococci*, is a Type III Fc receptor that binds to the Fc region of IgG by a non-immune mechanism similar to that of protein A. It contains 3 IgG binding domains and is engineered to delete albumin-binding region. HRP has been covalently coupled to Protein G to produce the HRP-Protein G, which can be used in detection systems such as immunoblotting, ELISA, immunoperoxidase electron microscopy and immunohistochemistry.

Reconstitution: Reconstitute the lyophilized powder with 1.0 ml of deionized water to a final HRP-Protein G concentration of 1 mg/ml.

Storage: HRP-Protein G should be stored lyophilized until use. It remains stable in lyophilized form for at least two years if stored at 2-8°C. The reconstituted antibody can be stored for 2-3 weeks at 2-8°C or for up to two years at -20°C or below. Avoid repeated freezing and thawing cycles.

Application: Suitable for immunoblotting (western or dot blot), ELISA, immunoperoxidase electron microscopy and immunohistochemistry as well as other peroxidase-antibody based enzymatic assays requiring lot-to-lot consistency.

Working concentrations for specific applications should be determined by the investigator. Appropriate concentrations will be affected by several factors, including primary antibody affinity, antigen concentration, sensitivity of detection method, temperature, and length of incubations, etc. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

Dot blot: 1:2,000-1:10,000

Western blot: 1:2,000-1:10,000

ELISA: 1:10,000-1:50,000

Immunohistology: 1:1,000-1:10,000

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