



Protein A

Catalog number

P9102-15A

Supplier

United States Biological

Protein A is a highly stable surface receptor produced by *Staphylococcus aureus*, which is capable of binding the Fc portion of immunoglobulins, especially IgGs, from a large number of species (Boyle and Reis, 1987). Each Protein A molecule can bind 2 molecules of IgG, allowing the formation of a precipitate (Sjöholm, 1975).

Protein A may be coupled to a wide variety of reporter molecules including fluorescent dyes, enzyme markers, biotin, colloidal gold and radioactive iodine without affecting the antibody binding site. These conjugates may be used to track immunoglobulins.

Alternatively, Protein A may be immobilized onto a solid support to facilitate the purification and recovery of either polyclonal or monoclonal immunoglobulins. Immobilized Protein A has recently been applied therapeutically to treat a variety of humoral diseases (Watson et al., 1989).

Applications

Suitable for use in ELISA, Western Blot and Immunodiffusion. Other applications not tested.

Recommended Dilutions

Optimal dilutions to be determined by the researcher.

Recommended Secondary Antibodies

I1906-10: IgY, Chicken (HRP) Rb x Ch

I1906-12: IgY, Chicken (FITC) Rb x Ch

I1906-14: IgY, Chicken (AP) Rb x Ch

Storage and Stability

May be stored at 4°C. For long-term storage, aliquot and store at 4°C. Do not freeze. Aliquots are stable for 12 months after receipt. For maximum recovery of product, centrifuge the original vial prior to removing the cap. Further dilutions can be made in assay buffer.

Formulation

Supplied as a liquid PBS, pH 7.4, 0.02% sodium azide.

Purity

Purified by affinity chromatography.

Specificity

Recognizes Protein A. One precipitin arc in Immunodiffusion against Staphylococcal Protein A.

Product Type

Pab



Isotype

IgY

Grade

Affinity Purified

Applications

E WB

Storage

4°C Do not freeze