



SEPHAROSE™ PROTEIN A - PA50-00-0002

Code: PA50-00-0002

Size: 2 mL

Product Description: SEPHAROSE™ PROTEIN A - PA50-00-0002

Concentration: 6.0 mg/cc drained sepharose gel (~1 cc settled sepharose beads per 2 ml suspension)

PhysicalState: Suspension of agarose beads

Label	Sepharose™								
Buffer	20% (v/v) Ethanol								
Stabilizer	None								
Storage Condition	Store SEPHAROSE PROTEIN A at 4° C prior to opening. DO NOT FREEZE.								
Synonyms	Sepharose Protein A								
Application Note	Protein A resin may also be used to pull down antibody:antigen complexes in immunoprecipitation experiments. This product is suitable for use at 20 µL per immunoprecipitation reaction.								
Background	Sepharose™ Protein A is a suspension of beads conjugated to native protein A derived from Staphylococcus aureus. When evenly dispersed approximately 2.0 cc of suspension is equal to 1.0 cc of settled beads of Sepharose™ 4 Fast Flow (highly cross linked, 4% agarose derivative). The bead size is approximately 45-165 µm when swollen. Approximately 6.0 mg of Protein A is bound per cc of drained beads. Each cc of drained beads will bind approximately 35 mg Human. The exclusion limit (Mr) of the beads is 3×10^7 . The maximum linear flow rate is approximately 1300 cm/hr. This product shows long term stability within pH range of 3 to 9 and short term stability within pH range of 2 to 10.								
Purity And Specificity	Protein A has a high affinity for the Fc regions of IgG molecules from a variety of species, including human, mouse, rat IgG2c, cow IgG2c, goat IgG2, sheep IgG2, and rabbit. Immobilization of protein A creates an affinity resin that can be used to isolate IgG fractions from crude serum, ascites fluid or hybridoma supernatants/dilute cell cultures. High capacity and high flow rate fractionation is applicable to both laboratory and scale-up processes. Sepharose™ Protein A can be used for immunoprecipitation and purification of monoclonal antibodies.								
Assay Dilutions	User Optimized								
OTHER ASSAYS	User Optimized								
Expiration	Expiration date is one (1) year from date of opening.								
Related Products	<table><tr><td>MB-001</td><td>1.0 M Tris HCl pH 7.2 - MB-001</td></tr><tr><td>MB-003</td><td>1.0 M Tris HCl pH 7.6 - MB-003</td></tr><tr><td>MB-008</td><td>10X PBS pH 7.2 (0.2 M Potassium Phosphate 1.5 M Sodium Chloride) - MB-008</td></tr><tr><td>PA00-00</td><td>PROTEIN A - PA00-00</td></tr></table>	MB-001	1.0 M Tris HCl pH 7.2 - MB-001	MB-003	1.0 M Tris HCl pH 7.6 - MB-003	MB-008	10X PBS pH 7.2 (0.2 M Potassium Phosphate 1.5 M Sodium Chloride) - MB-008	PA00-00	PROTEIN A - PA00-00
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PA00-00	PROTEIN A - PA00-00								
Related Links									
Images	<table><tr><td>1</td><td>Sepharose™ Protein A is a suspension of beads conjugated to a fusion protein containing binding domains from protein A from Staphylococcus aureus.</td></tr></table>	1	Sepharose™ Protein A is a suspension of beads conjugated to a fusion protein containing binding domains from protein A from Staphylococcus aureus.						
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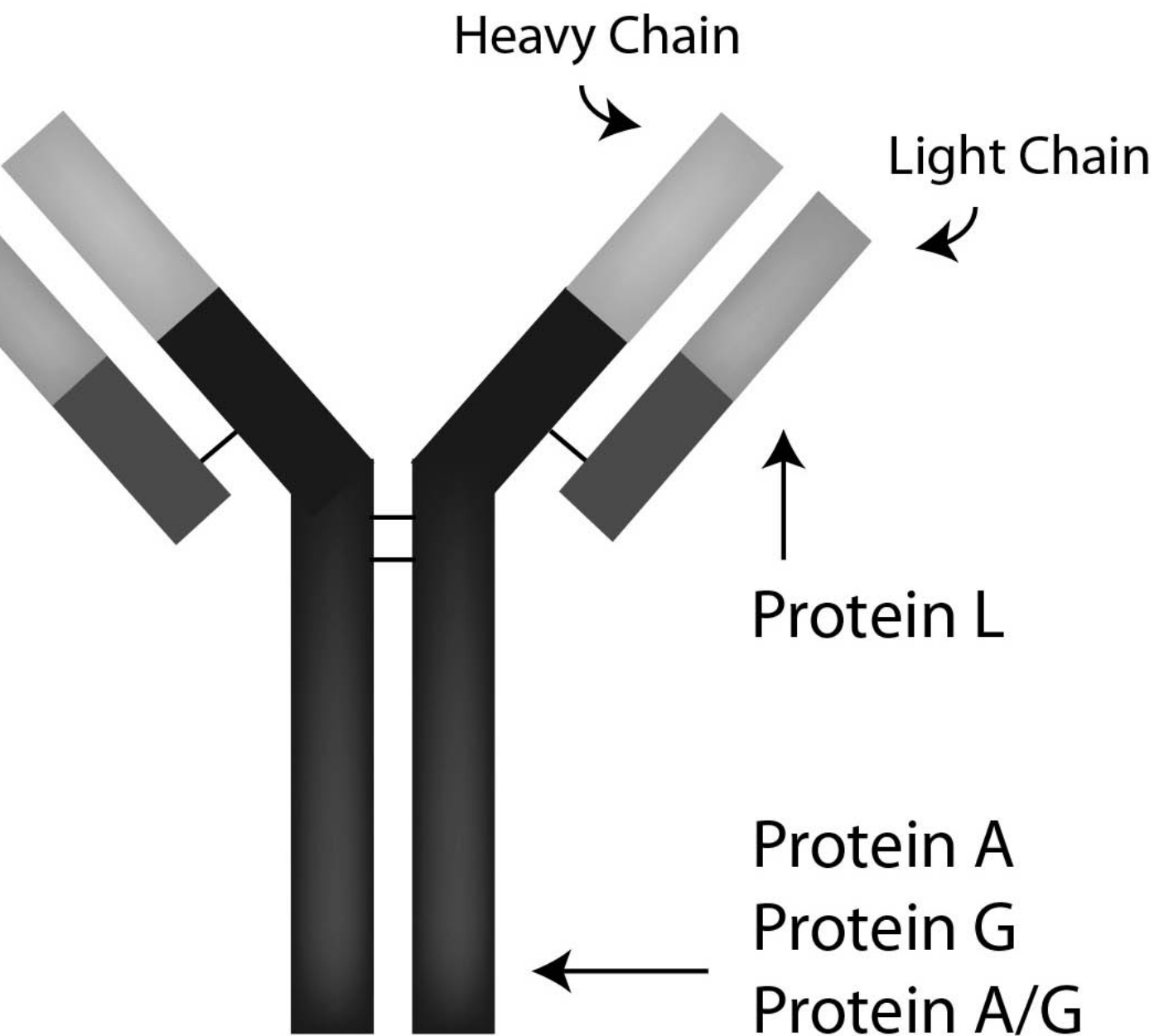
2

Ideal for Western Blotting where photo sensitive Conjugated Antibodies such as IRDye Conjugated Antibodies and DyLight Conjugated Antibodies are used. Rockland Immunochemicals features both large and small boxes to fit varying size and volume requirements.



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Antibody-binding protein specificity for Protein A, Protein G, and Protein A/G which demonstrate binding specificity to IgG immunoglobulin through an interaction in the Fc region of the heavy chain domain. Protein A and G each show some preferences to certain types of antibody subclasses, and proper reagent selection may be required, Protein A/G offers the widest range of antibody subclass binding. Another immunoglobulin binding protein is Protein L which binds to the kappa light chain of the F(ab')₂ region.



Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 326, Gilbertsville, Pennsylvania, USA.