



Protein A and Protein G

Protein A and Protein G Agarose Products

Covalently coupled Protein A Agarose and Protein G Agarose are widely used for the isolation of a variety of immunoglobulin molecules from many mammalian species. When combined with an antibody, these resins can selectively purify a specific protein from a complex mixture. KPL provides complete kits as well as bulk resin for antibody purification and immunoprecipitation, with a choice of different formats to suit specific research needs.

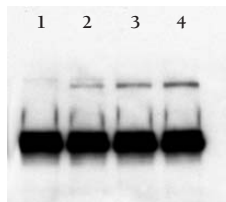
High quality Protein A and Protein G Agarose are the foundation of KPL's purification systems. Each resin has been selected for its superior performance in both immunoprecipitation and antibody purification applications.

Protein A Agarose

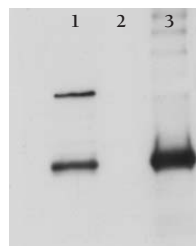
- ◆ Native Protein A ligand
- ◆ ~6 mg Protein A per mL, drained well
- ◆ Prepared on 4% cross-linked agarose beads
- ◆ Binding capacity of >35 mg/mL human IgG per mL resin
- ◆ Recommended working pH of 3-9

Protein G Agarose

- ◆ Recombinant Protein G, minus albumin-binding region
- ◆ ~2 mg Protein G per mL, drained well
- ◆ Prepared on 4% cross-linked agarose beads
- ◆ Binding capacity of >20 mg/mL human IgG per mL resin
- ◆ Recommended working pH of 3-9



Western blot of Transferrin Receptor immunoprecipitated from MOLT-4 cells using KPL's Protein G Agarose. Blot detected using an OKT-9 mouse monoclonal antibody. KPL's Protein Detector™ LumiGLO® Western Blot Kit. Top Band = Transferrin Receptor, bottom band = heavy chain. Lane 1: 1x10⁶ cells; Lane 2: 5x10⁶ cells; Lane 3: 1x10⁷ cells; Lane 4: 2x10⁷ cells.



Western blot of β -Galactosidase immunoprecipitated from *E. coli* cells using KPL's Protein A Agarose. Blot detected using a rabbit anti- β -Gal and KPL's Protein Detector LumiGLO Western Blot Kit. Lane 1: top band = β -Gal, bottom band = heavy chain; Lane 2: negative control; Lane 3: antibody.



Power Your Immunoassays

Protein A and Protein G

For fast and efficient isolation of target proteins and antibodies!

Protein A and G Immunoprecipitation Kits

These kits are designed to provide a versatile set of reagents, protease inhibitors, and Protein A or Protein G Agarose that can be used for a variety of applications. Sufficient reagents are provided to lyse cells, solubilize and immunoprecipitate antigens from 20 x 1 mL cell aliquots with extra volume supplied for additional wash preparation.

Protein A and G Purification Kits

These kits contain all the reagents needed to purify your antibodies, including resin suspension, binding/wash buffer, elution buffer, storage and neutralization buffers, columns and instructions for use. The buffer system is optimized to permit high recovery of pure antibody from crude serum samples. Columns can be regenerated after separations and reused.

Ordering Information

Catalog No.	Description	Size
223-50-01 553-50-00	Protein A Agarose Protein A Agarose Kit <i>Contains 5 mL packed resin, 2 disposable columns, 5X Binding/Wash Buffer, 10X Elution Buffer, Storage Buffer, Protocol</i>	5 mL each
553-50-01	Protein A Immunoprecipitation Kit <i>Contains 1 mL packed resin, 0.5 M Tris-HCl, 1.5 M NaCl, 5% SDS, 10% Sodium Deoxycholate, 10% Triton X-100, Protease Inhibitor Cocktail, Manual and Troubleshooting Guide</i>	20 reactions
223-51-01 553-51-00	Protein G Agarose Protein G Agarose Kit <i>Contains 10 mL packed resin, 2 disposable columns, 5X Binding/Wash Buffer, 10X Elution Buffer, Storage Buffer, Protocol</i>	10 mL each
553-51-01	Protein G Immunoprecipitation Kit <i>Contains 1 mL packed resin, 0.5 M Tris-HCl, 1.5 M NaCl, 5% SDS, 10% Sodium Deoxycholate, 10% Triton X-100, Protease Inhibitor Cocktail, Manual and Troubleshooting Guide</i>	20 reactions
54-12-50	Protein Detector™ LumiGLO® Western Blot Kit	2500 cm ²
54-11-50	Protein Detector TMB Western Blot Kit	2500 cm ²
54-13-50	Protein Detector LumiGLO Reserve Blot Kit	2400 cm ²
55-11-50	Protein Detector BCIP/NBT Western Blot Kit	2500 cm ²

To order or for more information on KPL's full line of protein and nucleic acid detection products, contact us at 800.638.3167 / 301.948.7755, fax 301.948.0169 or visit us at www.kpl.com.

Protein Detector and LumiGLO Reserve are trademarks and LumiGLO is a registered trademark of KPL, Inc.

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Features and Benefits

Immunoprecipitation Kits

- Flexibility: the content of the lysis buffer and wash solution can be modified to suit a specific protein
- Maximum recovery: Protease Inhibitor Cocktail minimizes loss of target protein due to protease activity during lysis
- Convenience: All necessary reagents are supplied to perform immunoprecipitation (except for specific antibody), reducing time and expense in preparation.

Purification Kits

- Flexibility: Resin can be used in supplied gravity flow column or in other automated systems.
- Cost effective: Simple regeneration of columns
- Optimized and convenient: two complete purification systems to accommodate various antibody classes and subclasses of IgG

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