

Antibody package, Protein G: Purification of antibodies from most species, including rat



With our prepacked columns and verified protocols using ÄKTA™ chromatography systems, you can purify antibodies from most species, including rat, with ease.

Introduction

The basis for antibody affinity chromatography is the high affinity and specificity of protein G for the Fc-region of IgG from a variety of species, including rat.

Protein G immobilized on chromatography resin and is highly effective in isolating subclasses of IgG from ascites fluid, cell culture supernatants, and serum. Protein G binds antibodies of different species and subclasses, and is widely used for the routine purification of antibodies.

Contents of Antibody package, Protein G

- HiTrap™ Protein G HP (1 × 1 mL)
- HiTrap Desalting (1 × 5 mL)

How to use the kit

The following workflow describes the steps involved in purifying antibodies from most species, including rat.

- 1 Sample preparation** First, you need to prepare your sample for the affinity purification step. For optimal growth, induction and cell lysis conditions for your antibody clones, please refer to established protocols.
- 2 Affinity purification** Your kit includes a HiTrap Protein G HP column prepacked Protein G Sepharose™ High Performance for fast, easy separations of IgG from different species and subclasses (including rat).
- 3 Buffer exchange** The kit also includes a HiTrap Desalting column for quick pH neutralization of the eluted antibodies.
- 4 Analysis** Depending on your goal, several analytical methods can be used: SDS-PAGE for purity analysis, Western blotting for detection of target molecules, X-ray crystallography for structure determination, and mass spectrometry for identification.



About the columns

To ensure that the columns do not interact with biomolecules, we produce them with biocompatible polypropylene. HiTrap columns can be used singly or connected in a series for easy scale up, together with a syringe, peristaltic pump, or chromatography system. HiTrap columns are well-suited for use with ÄKTA start, an easy-to-learn and easy-to-use system that eliminates the hassles of manual protein purification.

Enjoy your protein purification!

Ordering information

| Product | Quantity | Product code |
|-----------------------------|-----------------|---------------------|
| Antibody package, Protein G | 1 | 29058806 |
| HiTrap Protein G HP | 1 × 1 mL | 29048581 |
| HiTrap Desalting | 1 × 5 mL | 29048684 |

Download instructions for these products from cytiva.com:

[HiTrap Protein G HP \(code number 71700100\)](#) and

[HiTrap Desalting \(code number 71715400\)](#).

For detailed protocols, hints, and tips, download the

[Affinity Chromatography Handbook: Vol. 1, Antibodies](#) (code number 18103746).

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CY16052-01Feb21-FL

