

Antibody package, Protein A – Purification of human antibodies



With our prepacked columns and verified protocols using ÄKTA™ chromatography systems, you can purify almost any human monoclonal and polyclonal antibodies with ease. All of which means you can focus your efforts on what matters: your research, and changing tomorrow today.

Content of Antibody package, Protein A

- HiTrap™ Protein A HP (1 × 1 ml)
- HiTrap Desalting (1 × 5 ml)

Introduction

The basis for antibody affinity chromatography is the high affinity and specificity of protein A for the Fc-region of IgG of humans.

Protein A immobilized on chromatography media is highly effective in isolating subclasses of IgG from cell culture supernatants and serum. Protein A is widely used for the routine purification of human antibodies.

How to use the kit

The following workflow describes the steps involved in purifying human antibodies.

- 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 human antibody clones, please refer to established protocols.
- 2 Affinity purification** Your kit includes a HiTrap Protein A HP column prepacked with Protein A Sepharose™ High Performance medium for preparative purification of monoclonal and polyclonal antibodies from ascites fluid, serum, and cell culture supernatant.
- 3 Buffer exchange** The kit also includes a HiTrap Desalting column for quick pH neutralization of the eluted antibodies.
- 4 Analysis** Depending on your purpose, several analytical methods can be used. SDS-PAGE for purity analysis, Western blot 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	Code number
Antibody package, Protein A	1	29-0588-05
HiTrap Protein A HP	1 × 1 ml	29-0485-76
HiTrap Desalting	1 × 5 ml	29-0486-84

Detailed information on how to use the columns and purification protocols can be found in the instructions for the respective products: HiTrap Protein A HP (code number 71-7002-00) and HiTrap Desalting (code number 71-7154-00). Download the instructions at www.cytiva.com/purify-ProteinA under the related documents tab. You will also find our *Antibody Purification Handbook* (code number 18-1037-46).

cytiva.com/purify-ProteinA

Cytiva and the Drop logo are trademarks of Global Life Sciences IP Holdco LLC or an affiliate. ÄKTA, HiTrap, and Sepharose are trademarks of Global Life Sciences Solutions USA LLC or an affiliate doing business as Cytiva.

© 2020 Cytiva

For local office contact information, visit cytiva.com/contact

CY14744-26Nov20-FL

