

# 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](http://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](http://cytiva.com/purify-ProteinA)

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