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# Protein A/G

*Protein A/G Recombinant*
*RCP1713*

## Product Overview

| | |
|---|---|
| Name | Protein A/G |

**Description**

Protein A/G Recombinant

**Introduction**

Recombinant Protein A/G fusion protein joins IgG binding domains of both Protein A and Protein G. Protein A/G includes four Fc binding domains from Protein A and two from Protein G, yielding a final mass of 50.4 kDa. The binding dependency to pH of Protein A/G lower than Protein A, but has the additive properties of Protein A and G together. Protein A/G binds to all subclasses of human IgG, making it helpful for purifying polyclonal or monoclonal IgG antibodies whose subclasses have not been identifieed. Protein A/G binds to IgA, IgE, IgM and IgD. Protein A/G binds to all subclasses of mouse IgG excluding mouse IgA, IgM or serum albumin. This permits Protein A/G to be used in purification and detection of mouse monoclonal IgG antibodies, with no interference from IgA, IgM and serum albumin. Mouse monoclonal antibodies normally have a stronger affinity to the chimeric Protein A/G than to either Protein A or Protein G. Protein A/G also has been used for purification of macaque IgG.

**Source**

Escherichia coli.

**Formulation**

Lyophilized white Powder containing no additives.

**Stability**

After reconstitution, aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.

**Purity**

>97% as determined by SDS-PAGE and RP-HPLC.

**Amino acid sequence**

NAAQHDEAQQ NAFYQVLNMP NLNADQRNGF IQSLKDDPSQ SANVLGEAQK LNDSQAPKAD AQQNNFNKDQ QSAFYEILNM PNLNEAQRNG FIQSLKDDPS QSTNVLGEAK KLNESQAPKA DNNFNKEQQN AFYEILNMPN LNEEQRNGFI QSLKDDPSQS ANLLSEAKKL NESQAPKADN KFNKEQQNAF YEILHLPNLN EEQRNGFIQS LKDDPSQSAN LLAEAKKLND AQAPKADNKF NKEQQNAFYE ILHLPNLTEE QRNGFIQSLK DDPSVSKEIL AEAKKLNDAQ APKEEDSLEG SGSGTYKLIL NGKTLKGETT TEAVDAATAE KVFKQYANDN GVDGEWTYDD ATKTFTVTEK PEVIDASELT PAVTTYKLVI NGKTLKGETT TKAVDAETAE KAFKQYANDN GVDGVWTYDD

ATKTFTVTE.

**Solubility**

It is recommended to reconstitute the lyophilized Protein-A/G in sterile 18M-cm H 2 O not less than 0.1mg/ml, which can then be further diluted to other aqueous solutions.

**Precautions**

Protein A/G is for research use only and not for use in diagnostic or therapeutic procedures.