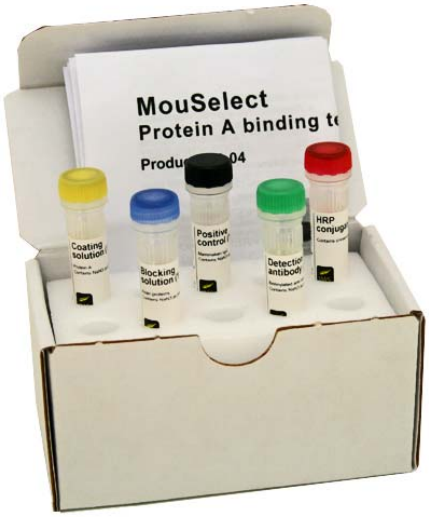
Product No. 09-04

MouSelect

Protein A binding test

This kit is designed to aid in an early selection of mouse antibodies, polyclonal or monoclonal, to a preferential purification on Protein A (from *Staphylococcus aureus*). The kit is based on selected antibodies that will detect all classes of mouse antibodies. The information of an early screening will save valuable time down-stream, since products have already been preferentially selected towards later Protein A purification.

Screening on-column or in a prefilled filter plates is more time consuming and expensive, and is generally not possible for a large number of antibodies.



Features and Benefits:

- Detection of mouse IgG_1, IgG_{2a}, IgG_{2b}, and IgG_3.
- Enough reagents included to run 8 plates, i.e. an initial screen for more than 700 samples.
- Simple operation without any sample preparation steps. Culture supernatant can generally be used without dilution.
- Possible to customize the assay to your needs.

Typical Applications:

- Quick and easy screening of mouse antibodies that can be purified on Protein A.
- Optimization of binding parameters.
- Optimization of elution parameters.

Ordering Information

Product	Quantity	Product No.
MouSelect	Reagents for 8 plates	09-04

www.immunsystem.com

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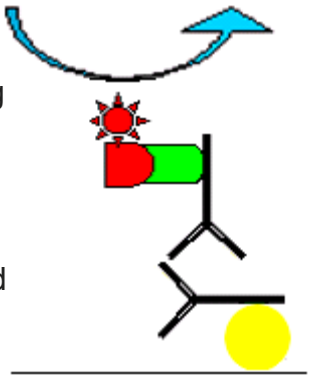
Assay Principle

Mouse antibodies are often purified on Protein A/G/L. Purification on Protein A is most common, especially in a later phase of pharmaceutical development. It is therefore preferable to make a selection of Protein A binders as early as possible, thus avoiding time-consuming re-engineering and optimization at a later stage.



In the assay, Protein A is bound to a plate. The Blocking solution, designed for low background, is then added. Samples containing IgG with affinity to Protein A will bind. Bound IgG can thus be detected or quantified with the Detection solution. The Detection antibody is designed to detect all four mouse IgG classes and it does not bind to Protein A.

From the screening, users can quickly select the antibodies that are most suitable for further testing *in vitro* or *in vivo*.

Test Procedure

1. Coat plates with the Coating solution (included) - incubate 120 min.
2. Block plates with the Blocking solution (included) - incubate 60 min.
3. Add the Positive Control (included) and samples - incubate 60 min.
4. Add the Detection solution (included) - incubate 60 min.
5. Add the HRP conjugate (included) - incubate 30 minutes.
6. Add TMB substrate - incubate 10 min.
7. Add 1M HCl to stop the reaction.
8. Read absorbance at 450 nm.

N.B. Washing should be performed after steps 1, 2, 3, 4 and 5.

Indication of Performance

Assay time	6 hours
Capacity	8 plates (more than 700 samples
Sensitivity	0.1 µg/mL [1]
CV, intra assay	< 5%
Cross reactivity	Depending on the source [2]
Matrix effect	Not seen [3]
Antigen excess (hook effect)	Not seen [4]

[1] Sensitivity of mouse IgG1 is higher due to the relative poor binding to Protein A.

[2] Some cross reactivity will be seen with most mammalian IgG.

[3] RPMI, DMEM and MEM tested. No calf serum added.

[4] Tested for Positive control, up to 1000 µg/mL

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