Mouse Antibody Capture Kit

Product description

Order code:	BR-1008-38
Contents:	• Anti-Mouse antibodies: 1 mg/ml in 0.15 M NaCl, 50 µl Sterile filtered. No preservatives added. • Immobilization buffer: 10 mM sodium acetate pH 5.0, 1 ml • Regeneration solution: 10 mM Glycine-HCl pH 1.7, 95 ml
Storage:	+2 to 8°C
Kit capacity:	The content of Mouse Antibody Capture Kit is sufficient for at least 10 immobilizations and 1000 regenerations.
Safety:	For use and handling of the product in a safe way, please refer to the Safety Data Sheet.

Note: *For in vitro use only.*

Intended use

Mouse Antibody Capture Kit is intended for capture of mouse antibodies as ligands in various biomolecular interaction analyses. Anti-Mouse antibodies are suitable for immobilization on carboxyl derivatized surfaces using Amine Coupling Kit and the included Immobilization buffer, while the Regeneration solution is used for removal of the captured antibodies.

Antibody information

Anti-Mouse antibodies consist of polyclonal rabbit anti-mouse immunoglobulin antibodies reacting with mainly IgG. Reaction with other mouse antibody classes is expected but has not been tested.

Immobilization conditions

Required materials

Anti-Mouse antibodies and Immobilization buffer are included in the kit. The list below specifies additional required materials (available from GE).

- Carboxyl-derivatized chip (Sensor Chip CM5, CM4, CM3 or C1)
- Amine Coupling Kit
- Running buffer (e.g. HBS-EP+, HBS-EP, HBS-P+, HBS-P, HBS-N, PBS-P+, PBS)

Preparation

Dilute Anti-Mouse antibodies to 30 µg/ml in Immobilization buffer (5 µl + 162 µl).

Reference surface

The reference surface should be prepared in the same way as the active surface, i.e. the reference surface should be immobilized using the same settings as the active surface. For use on Biacore A100 and Biacore 4000, perform the immobilization in spots 1 + 2 and/or 5 + 4 in one injection by ticking the ***Immobilize for capture*** box in the immobilization wizard. For use on Biacore T200 and other instruments, perform two identical immobilizations in adjacent flow cells.

Note: *It is not recommended to use an unmodified surface as a reference.*

Immobilization settings

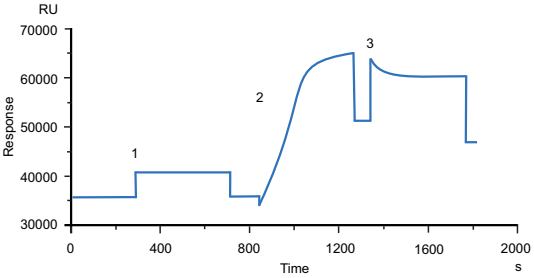
Perform the immobilization at 25°C using a flow rate of 5 to 10 µl/min in systems where the flow rate can be adjusted.

Reagents for immobilization are provided in the Amine Coupling Kit.

Procedure step	Injection	Recommended conditions
Activation	EDC/NHS	10 minutes in Biacore A100 and Biacore 4000
Immobilization	Anti-Mouse Ab	7 minutes
Deactivation	Ethanolamine	7 minutes

The expected immobilization level is 9 000 to 14 000 RU on Sensor Chip CM5. The exact amounts of immobilized Anti-Mouse antibodies are normally not critical for capturing antibodies. The immobilization level may be adjusted if necessary by changing the contact time or concentration of the Anti-Mouse antibodies.

The sensorgram below shows a typical immobilization sequence for Anti-Mouse antibodies on Sensor Chip CM5. The numbers indicate the start of injections of (1) EDC/NHS, (2) Anti-Mouse Ab and (3) ethanolamine.



Recommended running conditions

Analysis temperature

Mouse Antibody Capture Kit is designed for use at 4°C to 40°C. Low analysis temperatures (<10°C) may require longer regeneration injections in order to completely remove any remaining antibodies from the surface.

Running buffer

HBS-EP+, HBS-EP, HBS-P+, HBS-P, HBS-N, PBS-P+, and PBS, available from GE, are commonly used buffers for analysis.

Start-up cycles

For best assay performance, run at least one start-up cycle using identical settings as for the analysis cycles, including a mouse antibody sample and buffer instead of analyte.

Ligand injection

Contact time and flow rate generally varies between 1 to 3 minutes and 5 to 30 µl/min, respectively.

Suitable capture levels depend on the application.

Analyte injection

Contact time and flow rate generally vary between 1 to 3 minutes and 10 to 30 µl/min, respectively.

Suitable analyte levels depend on the application.

Regeneration injection

Inject the regeneration solution using a contact time of 3 minutes at for example 20 µl/min. This will remove captured antibodies together with any analyte bound to them.

For local office contact information, visit
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