PRODUCT DATA SHEET

lab0220 Anti-Mouse IgG (H+L), Biotin conjugate antibody

Product specifications

Immunogen IgG(H+L)

Form Fab fragments **Target** mouse

Raised in Rabbit **Labelling** Biotin

Conjugate properties

The avidin-biotin system is a signal amplification system that allows the detection of quantities of antigens that are too small to be detected by direct enzymatic or fluorescent systems. Biotin labelled antibodies allow label changes and the use of multiple labels. Biotin-labelled antibodies have a long storage life. Moreover, by its small size, the biotin has a negligible effect on the biological activity of proteins. The presence of endogenous biotin could however, increase background.

Applications

The Fab is monovalent fragments of immunoglobulins, i.e. including one site for the fixation of the antigen. They are prepared by enzymatic digestion (papain). Like our others antibodies, they are purified by affinity chromatography and are thus particularly specific. Fab fragments have certain advantages with respect to the entire antibodies in flow cytometry, immuno-histochemistry and immuno-cytology. On the one hand their specificity is increased since they can no longer be bound in a non-specific way by their Fc part as entire Ig's are. On the other hand their use also increades the sensitivity of the technique. In fact, their small size enhances their penetration into tissues and cells as well as their availability for the antigens (particularly for Fab). Finally, conjugated Fab's have a label/antigenic ratio that is twince as high compared to antibodies (except fluorescent conjugates).

Working dilutions

Optimal dilution should be determined by the end user
The following are guidelines only :
- ELISA : 1/1 000 to 1/10 000
- Immunoblot : 1/200 to 1/2 000
- Immunocytochemistry : 1/50 to 1/200
- Immunohistochemistry : 1/50 to 1/200

Packaging specifications

Packaging 1 ml

Appearance Liquid

Constituents PBS, 50% Glycerol

Preservative None

Storage

Short term storage : +4°C
Long term storage : -20°C

Recommendations Product in glycerol, do not freeze

Product type

Secondary antibody

Clonality

Polyclonal Antibody

Related product

opr0011 ; opr0002 ; opr0008 ; opr0009

Warning

This is a laboratory reagent. It is not to be administered to human or animals nor be used as a drug

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version B

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