

lab0096 Anti-Human IgG (Fab), Biotin conjugate antibody

Sheep anti-human IgG (Fab) F(ab')₂ fragment

Product specifications

Immunogen IgG (Fab)

Form F(ab')₂ fragments **Target** human

Raised in Sheep **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.

Cross reactions

Applications The F(ab')₂ is bivalent fragments of immunoglobulins, i.e. including two sites for the fixation of the antigen. They are prepared by enzymatic digestion (pepsin). Like our others antibodies, they are purified by affinity chromatography and are thus particularly specific. F(ab')₂ 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 increases 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 twice as high compared to antibodies (except fluorescent conjugates).

Working dilutions ELISA : 1/1000 to 10000, ICC/IHC : 1/50 to 1/200, IB : 1/200 to 1/2000

Packaging specifications

Packaging 0.5 ml

Concentration

Appearance Liquid

Constituents PBS, 50% Glycerol

Preservative None

Storage instructions Stored at +4°C. For extended periods : store at -20°C

Recommendations Product in glycerol do not freeze and can be stored liquid at -20°C

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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