

## PRODUCT DATA SHEET

### lab0002 Anti-Bovine IgG (H+L), Biotin conjugate antibody



#### Product specifications

<b>Immunogen</b>	IgG(H+L)		
<b>Form</b>	F(ab') <sub>2</sub> fragments	<b>Target</b>	bovine
<b>Raised in</b>	Rabbit	<b>Labelling</b>	Biotin
<b>Conjugate properties</b>	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.		
<b>Applications</b>	The F(ab') <sub>2</sub> 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') <sub>2</sub> 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).		
<b>Working dilutions</b>	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

<b>Packaging</b>	1 ml
<b>Appearance</b>	Liquid
<b>Constituents</b>	PBS, 50% Glycerol
<b>Preservative</b>	None
<b>Storage</b>	Short term storage : +4°C Long term storage : -20°C
<b>Recommendations</b>	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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