

PRODUCT DATA SHEET

lab0004 Anti-Bovine IgG (H+L), Peroxydase conjugate antibody



Product specifications

Immunogen	IgG(H+L)		
Form	F(ab') ₂ fragments	Target	bovine
Raised in	Rabbit	Labelling	HRP
Conjugate properties	Peroxidase labelling has the advantage of being sensitive and permanent. Peroxidase substrates are varied: precipitating substrates for western blot or immuno-histochemistry (DAB, AEC, 4CN, TMB), soluble substrates for ELISA (TMB, OPD, ABTS) and chemiluminescent substrates (luminol). However, peroxidase labelling has some disadvantages: Peroxidase is rendered inactivated by oxygen, hypochloric acid and sodium azide. It is therefore advisable to use highly purified water. The presence of endogenous peroxidase in certain tissues like macrophage, red blood cells, bone marrow cells and plants could increase the background.		
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	Optimal dilution should be determined by the end user The following are guidelines only : - ELISA : 1/500 to 1/5 000 - Immunoblot : 1/100 to 1/1 000 - Immunocytochemistry : 1/20 to 1/100 - Immunohistochemistry : 1/20 to 1/100		

Packaging specifications

Packaging	1 ml
Appearance	Liquid
Constituents	TBS, 50% Glycerol
Preservative	None
Storage	Short term storage : +4°C Long term storage : -20°C
Recommendations	Product in glycerol, do not freeze Do not distribute the HRP conjugated in plastics (e.g. eppendorf) so as to avoid a loss of activity

Product type

Secondary antibody

Clonality

Polyclonal Antibody

Related product

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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