

## PRODUCT DATA SHEET

### lab0108 Anti-Human IgG (gamma), Peroxydase conjugate antibody



#### Product specifications

<b>Immunogen</b>	IgG(gamma)		
<b>Form</b>	F(ab') <sub>2</sub> fragments	<b>Target</b>	human
<b>Raised in</b>	Goat	<b>Labelling</b>	HRP
<b>Conjugate properties</b>	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.		
<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 : 1/500 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

<b>Packaging</b>	1 ml
<b>Appearance</b>	Liquid
<b>Constituents</b>	TBS, 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 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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