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Datasheet for ABIN457588
anti-LPO antibody (Biotin)

Overview

Quantity:	1 mL
Target:	LPO
Reactivity:	Cow
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This LPO antibody is conjugated to Biotin
Application:	Immunohistochemistry (IHC), Immunocytochemistry (ICC), ELISA

Product Details

Immunogen:	Lactoperoxidase (EC 1.11.1.7) is one of the major enzymes in bovine milk. The enzyme has a molecular weight of 80,000. It is isolated from pooled bovine milk. Freund's complete adjuvant is used in the first step of the immunization procedure.
Isotype:	IgG
Specificity:	The antiserum does not cross-react with any other component of bovine serum. Inter-species cross-reactivity is a normal feature of antibodies, since homologous proteins of different species frequently share antigenic determinants. This antiserum has not been tested in detail, but reactivity with lactoperoxidase from goat and sheep may be expected.
Characteristics:	Biotin-conjugated IgG fraction of polyclonal rabbit antiserum to bovine lactoperoxidase
Purification:	Adsorption: Immunoaffinity adsorbed using insolubilized antigens as required, to eliminate antibodies cross reacting with other components of the immunoglobulin system or reacting with other serum proteins. The use of insolubilized adsorption antigens prevents the presence

Product Details

of excess adsorbent protein or immune complexes in the anti-serum. Hyperimmune antisera with strong precipitating activity are selected for fractionation by salt-precipitation and purification of the IgG fraction by DEAE-chromatography.

Target Details

Target:	LPO
Alternative Name:	Lactoperoxidase (LPO Products)
Background:	The reactivity of the antiserum is restricted to lactoperoxidase as tested in immunoelectrophoresis and radial immunodiffusion. Using various antiserum concentrations against fresh bovine milk a single precipitin line is obtained. No precipitation reaction is obtained with normal bovine serum or plasma

Application Details

Application Notes:	In immunocytochemical and immunohistochemical staining to identify and measure lactoperoxidase at the cellular and subcellular level by staining of appropriately treated cell and tissue substrates. As a second step an avidin or streptavidin conjugate of the user's choice has to be used. Working dilutions for histochemical use are usually between 1:100 and 1:250, in ELISA and comparable non-precipitating antibody-binding assays between 1:1,000 and 1:5,000.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Concentration:	Physicochemical characteristic IgG protein concentration 10 mg/ml. Biotin/IgG protein molar ratio (B/P) approximately 8.9. No foreign proteins added.
Buffer:	Biotin-coupled purified hyperimmune rabbit IgG lyophilized from a solution in phosphate buffered saline (PBS, pH 7.2).
Preservative:	Without preservative
Storage:	4 °C/-20 °C
Storage Comment:	The lyophilized immunoconjugate is shipped at ambient temperature and may be stored at +4°C, prolonged storage at or below -20°C. Reconstitute the lyophilized antiserum by adding 1 ml sterile distilled water. Dilutions may be prepared by adding phosphate buffered saline (PBS, pH 7.2). Repeated thawing and freezing should be avoided. If a slight precipitation occurs upon

storage, this should be removed by centrifugation. It will not affect the performance of the immunoconjugate. Diluted antiserum should be stored at +4°C, not refrozen, and preferably used the same day.