

Product datasheet for **AP31550BT-N**

LPO Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, ID, IF, IP, R, WB
Recommended Dilution:	Works 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. <i>Recommended Working Dilutions:</i> Immunohistochemistry: 1/100-1/250. ELISA and comparable non-precipitating antibody-binding assays: 1/1000-1/5000.
Reactivity:	Bovine
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
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.
Specificity:	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. Cross-reactivity: The antiserum does not cross-react with any other component of bovine serum. Interspecies cross-reactivity is a normal feature of antibodies, since homologous proteins of different species frequently share antigenic determinants. Cross-reactivity of this antiserum has not been tested in detail, but reactivity with lactoperoxidase from goat and sheep may be expected.
Formulation:	PBS, pH 7.2 without preservatives and foreign proteins. Label: Biotin State: Lyophilised hyperimmune Ig fraction Label: <u>Marker:</u> N-Hydroxysuccinimidobiotin Molar ratio: 8.9



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Reconstitution Method:	Restore by adding 1 ml sterile distilled water
Concentration:	lot specific
Purification:	DEAE-column Chromatography
Conjugation:	Biotin
Storage:	Prior to reconstitution store at 2-8°C. Following reconstitution store undiluted at 2-8°C for one week or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Database Link:	Entrez Gene 280844 Bovine P80025
Background:	Lactoperoxidase is a natural antibacterial agent in bovine milk, a medium otherwise rich in its ability to support bacterial growth. Milk lactoperoxidase levels vary among species, ranging from little or none in humans to very high concentrations in guinea pigs. Interestingly, lactoperoxidase from milk is identical to the lacrimal and salivary forms of the enzyme. In addition, the enzyme catalyzes the hydrogen peroxide oxidation of iodine and can be employed in labelling proteins with radioiodine.
Synonyms:	LPO, SAPX, Lactoperoxidase, EC=1.11.1.7, Salivary peroxidase, SPO
Note:	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 of excess adsorbent protein or immune complexes in the antiserum.