Datasheet for ABIN1607841

anti-LPO antibody (Biotin)

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1 Image

Overview

Quantity:	100 µg
Target:	LPO
Reactivity:	Cow
Host:	Sheep
Clonality:	Polyclonal
Conjugate:	This LPO antibody is conjugated to Biotin
Application:	Western Blotting (WB), Immunoprecipitation (IP), ELISA

Product Details

Immunogen:	Lactoperoxidase [Bovine Milk] Immunogen Type: Native Protein
Isotype:	IgG
Cross-Reactivity (Details):	Cross reactivity against Lactoperoxidase from other sources is unknown.
Purity:	Anti-Lactoperoxidase (Bovine Milk) (Sheep) Antibody Biotin Conjugated is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Biotin, anti-Sheep Serum as well as purified and partially purified Lactoperoxidase [Bovine Milk].
Endotoxin Level:	Low Endotoxin : No

Target Details

Target:	LPO
Alternative Name:	Lactoperoxidase (LPO Products)
Background:	Lactoperoxidase antibody recognizes the lactoperoxidase protein. Lactoperoxidase catalyzes the oxidation of a number of inorganic and organic substrates by hydrogen peroxide. Lactoperoxidase plays an important role in killing bacteria in milk. Lactoperoxidase conjugated to Biotin is used to detect the specific target of the lactoperoxidase protein. Lactoperoxidase conjugated to Biotin is suitable for researchers in immunology and biochemistry. Synonyms: LPO antibody, Salivary peroxidase antibody, SAPX antibody, SPO antibody
Gene ID:	280844
UniProt:	P80025

Application Details

Application Notes:	Anti-Lactoperoxidase Antibody has been assayed against 1.0 µg of Lactoperoxidase in a standard capture ELISA using Peroxidase Conjugated Streptavidin #S000-03 and ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:1.000 to 1:6.000 of the reconstitution concentration is suggested for Anti-Lactoperoxidase. ELISA Dilution: 1:5.000 - 1:20.000 IF Immunoprecipitation Dilution: 1:100 Western Blot Dilution: 1:500 - 1:5.000
Restrictions:	For Research Use only

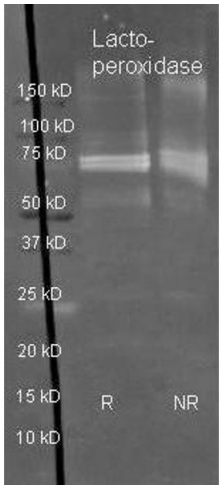
Handling

Format:	Liquid
Concentration:	10 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Handling Advice:	Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Storage:	-20 °C
Storage Comment:	Store vial at -20 °C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated

Handling

	above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below.
Expiry Date:	Expiration date is one (1) year from date of opening.

Images



Western Blotting

Image 1. Sheep anti Lactoperoxidase antibody was used to detect Lactoperoxidase under reducing (R) and non-reducing (NR) conditions. Reduced samples of purified target proteins contained 4% BME and were boiled for 5 minutes. Samples of ~1ug of protein per lane were run by SDS-PAGE. Protein was transferred to nitrocellulose and probed with 1:3000 dilution of primary antibody (ON 4 C in ABIN925618). Detection shown was using Dylight 488 conjugated secondary antibody (605-741-125 lot 21094 1:10K in TBS/ABIN925618 1 hr RT). Images were collected using the BioRad VersaDoc System