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Datasheet for 200-603-146

Lactoperoxidase Antibody Peroxidase Conjugated

Overview

Description:	Anti-Lactoperoxidase (Bovine Milk) (SHEEP) Antibody Peroxidase Conjugated (BULK ORDER) - 200-603-146
Item No.:	200-603-146
Size:	20 mg
Applications:	Dot Blot, WB
Reactivity:	Bovine
Host Species:	Sheep

Product Details

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 peroxidase is used to bind to the heavy and light specific target of the lactoperoxidase protein. Lactoperoxidase conjugated to Peroxidase is suitable for researchers in immunology, cancer, and biochemistry.
Synonyms:	sheep anti-Lactoperoxidase HRP conjugated Antibody, peroxidase conjugated sheep anti-Lactoperoxidase Antibody, LPO antibody, Salivary peroxidase antibody, SAPX antibody, SPO antibody
Host Species:	Sheep
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	LPO
Reactivity:	Bovine
Immunogen Type:	Native Protein

Immunogen:	Lactoperoxidase [Bovine Milk]
Purity/Specificity:	Lactoperoxidase 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-Peroxidase, anti-Sheep Serum as well as purified and partially purified Lactoperoxidase [Bovine Milk]. Cross reactivity against Lactoperoxidase from other sources is unknown.
Relevant Links:	• UniProtKB - P80025 • NCBI - P80025.1 • GeneID - 280844

Application Details

Tested Applications:	Dot Blot, WB
Application Note:	Anti-Lactoperoxidase Peroxidase Conjugated Antibody has been tested by dot blot and western blot and is suitable to be assayed against 1.0 ug of Lactoperoxidase [Bovine Milk] in a standard capture ELISA using 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 1:2,000 to 1:10,000 of the reconstitution concentration is suggested for Anti-Lactoperoxidase Antibody.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5,000 - 1:20,000
IP:	1:100
WB:	1:500 - 1:5,000

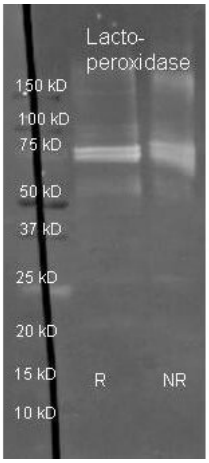
Formulation

Physical State:	Lyophilized
Concentration:	10 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	2.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
Rockland Sheep anti Lactoperoxidase antibody (200-601-146 lot 5243) 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 MB-070). Detection shown was using Dylight 488 conjugated secondary antibody (605-741-125 lot 21094 1:10K in TBS/MB-070 1 hr RT). Images were collected using the BioRad VersaDoc System

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