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Datasheet for 200-601-146

Lactoperoxidase Antibody

Overview

Description:	Anti-Lactoperoxidase (Bovine Milk) (SHEEP) Antibody (BULK ORDER) - 200-601-146
Item No.:	200-601-146
Size:	50 mg
Applications:	WB
Reactivity:	Bovine
Host Species:	Sheep

Product Details

Background:	Lactoperoxidase is an antimicrobial agent which utilizes hydrogen peroxide and thiocyanate (SCN) to generate the antimicrobial substance hypothiocyanous acid (HOSCN). It may protect the udder from infection and promote growth in newborn calves. It inhibits growth of the following bacterial species: E.coli, K.pneumoniae, P.aeruginosa, S.sonnei, S.saphrophyticus, S.epidermidis, and S.dysenteriae.
Synonyms:	sheep anti-Lactoperoxidase Antibody, LPO antibody, Salivary peroxidase antibody, SAPX antibody, SPO antibody
Host Species:	Sheep
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	LPO
Reactivity:	Bovine
Immunogen Type:	Native Protein
Immunogen:	Lactoperoxidase [Bovine Milk]

Purity/Specificity:	Anti-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-Sheep Serum as well as purified and partially purified Lactoperoxidase [Bovine Milk]. Cross reactivity against Lactoperoxidase from other tissues and species may occur but have not been specifically determined.
Relevant Links:	• UniProtKB - P80025 • NCBI - P80025.1 • GeneID - 280844

Application Details

Tested Applications:	WB
Application Note:	Lactoperoxidase antibody has been tested by western blot and is suitable to be assayed against 1.0 ug of Lactoperoxidase [Bovine Milk] in a standard ELISA using Peroxidase conjugated Affinity Purified anti-Sheep IgG [H&L] (Rabbit) code #613-4302 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 1:5,000 of the reconstitution concentration is suggested for this product.
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

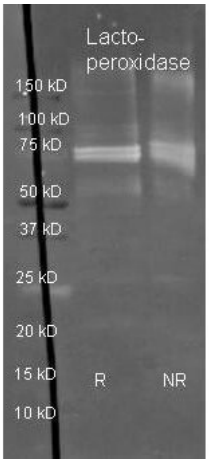
Formulation

Physical State:	Lyophilized
Concentration:	10.0 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) Sodium Azide
Stabilizer:	None
Reconstitution Volume:	5.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

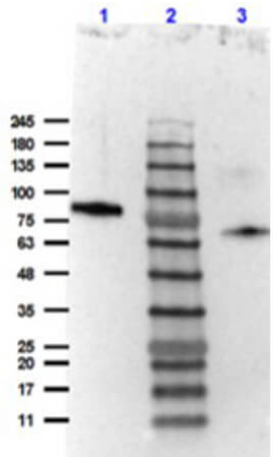
Shipping & Handling

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



Western Blot
Western Blot of Sheep Anti-Lactoperoxidase (bovine milk) Antibody. Lane 1: Lactoperoxidase Reduced [0.1µg]. Lane 2: Opal prestained molecular weight marker (p/n MB-210-0500). Lane 3: Lactoperoxidase Non-Reduced [0.1µg]. Primary Antibody: Anti-Lactoperoxidase at 1:500 overnight at 4°C. Secondary Antibody: Rabbit Anti-Sheep IgG HRP (p/n 613-4302) at 1:40,000 for 30mins at RT. Blocking: BlockOut buffer (p/n MB-073) 1 hr RT. Expected MW: 78kDa. Exposure: 10 sec.

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