

Datasheet for 200-606-146-0100**Anti-Lactoperoxidase Antibody Biotin Conjugated****Overview**

Description:	Anti-Lactoperoxidase (Bovine Milk) (SHEEP) Antibody Biotin - 200-606-146-0100
Item No.:	200-606-146-0100
Size:	100 µg
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 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:	sheep anti-Lactoperoxidase biotin conjugated Antibody, biotin conjugated sheep anti-Lactoperoxidase Antibody, LPO antibody, Salivary peroxidase antibody, SAPX antibody, SPO antibody
Host Species:	Sheep
Conjugate:	Biotin
Clonality:	Polyclonal
Format:	IgG

Target Details

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

Purity/Specificity: 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]. Cross reactivity against Lactoperoxidase from other sources is unknown.

Relevant Links:

- [UniProtKB - P80025](#)
- [NCBI - NP_776358.1](#)
- [GeneID - 280844](#)

Application Details

Tested Applications: Dot Blot, WB

Application Note: Anti-Lactoperoxidase Biotin Conjugated Antibody has been tested by Dot blot and western blot and is suitable to be assayed against 1.0 ug of Lactoperoxidase in a standard capture ELISA using Peroxidase Conjugated Streptavidin #S000-03 and ABTS (2,2'-azino-bis-[3-ethylbenzothiazoline-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.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:500 - 1:2,000

IP: 1:100

WB: 1:50 - 1:500

Formulation

Physical State: Lyophilized

Concentration: 1.0 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: 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free

Reconstitution Volume: 100 µL

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 ~1µg 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

Disclaimer

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