

**Datasheet for 200-603-146S****Lactoperoxidase Antibody Peroxidase Conjugated****Overview**

|                      |                                                                                          |
|----------------------|------------------------------------------------------------------------------------------|
| <b>Description:</b>  | Anti-Lactoperoxidase (Bovine Milk) (SHEEP) Antibody Peroxidase Conjugated - 200-603-146S |
| <b>Item No.:</b>     | 200-603-146S                                                                             |
| <b>Size:</b>         | 25 µL                                                                                    |
| <b>Applications:</b> | Dot Blot, WB                                                                             |
| <b>Reactivity:</b>   | Bovine                                                                                   |
| <b>Host Species:</b> | Sheep                                                                                    |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>   | 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. |
| <b>Synonyms:</b>     | sheep anti-Lactoperoxidase HRP conjugated Antibody, peroxidase conjugated sheep anti-Lactoperoxidase Antibody, LPO antibody, Salivary peroxidase antibody, SAPX antibody, SPO antibody                                                                                                                                                                                                                                                                                                            |
| <b>Host Species:</b> | Sheep                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Conjugate:</b>    | Peroxidase (HRP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

**Target Details**

|                        |                               |
|------------------------|-------------------------------|
| <b>Gene Name:</b>      | LPO                           |
| <b>Reactivity:</b>     | Bovine                        |
| <b>Immunogen Type:</b> | Native Protein                |
| <b>Immunogen:</b>      | 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](#)
- [GenelD - 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:** Liquid (sterile filtered)

**Concentration:** 1.0mg/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

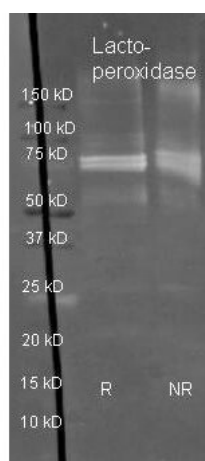
## Shipping & Handling

**Shipping Condition:** Dry Ice

**Storage Condition:** 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 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. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.

**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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