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Anti-LACTOPEROXIDASE (Bovine Milk) (SHEEP) Antibody Peroxidase Conjugated

Lactoperoxidase Antibody Peroxidase Conjugated
Catalog # ASR4815

Specification

Anti-LACTOPEROXIDASE (Bovine Milk) (SHEEP) Antibody Peroxidase Conjugated - Product Information

Host	**Sheep**
Conjugate	**Peroxidase (Horseradish)**
Target Species	**Bovine**
Reactivity	**Bovine**
Clonality	**Polyclonal**
Application	**WB, E, IP, I, LCI**
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.**
Physical State	**Lyophilized**
Buffer	**0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2**
Immunogen	**Lactoperoxidase [Bovine Milk]**
Reconstitution Volume	**100 µL**
Reconstitution Buffer	**Restore with deionized water (or equivalent)**
Stabilizer	**10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free**
Preservative	**0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!**

Anti-LACTOPEROXIDASE (Bovine Milk) (SHEEP) Antibody Peroxidase Conjugated - Additional Information

Gene ID 280844

Other Names
280844

Purity
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.

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.

Precautions Note
This product is for research use only and is not intended for therapeutic or diagnostic applications.

Anti-LACTOPEROXIDASE (Bovine Milk) (SHEEP) Antibody Peroxidase Conjugated - Protein Information

Name LPO

Function
Heme-containing oxidoreductase which catalyzes the conversion of thiocyanate (SCN(-)) into antimicrobial agent hypothiocyanous acid (OSCN(-)) in the presence of hydrogen peroxide (H2O2) (Probable) (PubMed:5338806). Also involved in the conversion of iodide (I(-)) into hypoiodite (IO(-)) in the presence of H2O2 (Probable) (PubMed:354515). Responsible for the inactivation of a wide range of micro-organisms and hence, important component of defense mechanism (PubMed:354515, PubMed:5338806). The lactoperoxidase-SCN(-)-H2O2 system shows antibacterial properties against some streptococci strains (PubMed:5338806). The lactoperoxidase-I(-)-H2O2 system shows antibacterial properties against E.coli (PubMed:354515). May protect the udder from infection and may promote growth in newborns (By similarity). May be implicated in airway host defense against infection (By similarity). May contribute to maintaining an appropriate H2O2 cellular level, therefore protecting cells from H2O2-caused injuries and inflammation (By similarity).

Cellular Location
Secreted. Cytoplasm {ECO:0000250|UniProtKB:Q5SW46}

Tissue Location
Mammary gland; milk..

Anti-LACTOPEROXIDASE (Bovine Milk) (SHEEP) Antibody Peroxidase Conjugated - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-LACTOPEROXIDASE (Bovine Milk) (SHEEP) Antibody Peroxidase Conjugated - Images

Anti-LACTOPEROXIDASE (Bovine Milk) (SHEEP) Antibody Peroxidase Conjugated - 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.