

## Anti-LPO Antibody Picoband® FITC Conjugated

Catalog Number: A01483-2-FITC

### About LPO

Lactoperoxidase is a peroxidase enzyme secreted from mammary, salivary and other mucosal glands including the lungs, bronchii and nose that functions as a natural and the first line of defense against antibacterial and antiviral agents. Lactoperoxidase is a member of the heme peroxidase family of enzymes. In humans, lactoperoxidase is encoded by the LPO gene. This gene encodes a member of the peroxidase family of proteins. The encoded preproprotein is proteolytically processed to generate the mature enzyme. Following its secretion from salivary, mammary, and other mucosal glands, this enzyme catalyzes the generation of the antimicrobial substance hypothiocyanous acid. This gene is present in a gene cluster on chromosome 17. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed.

### Overview

|                      |   |
|----------------------|---|
| Product Name         | Anti-LPO Antibody Picoband® FITC Conjugated   |
| Reactive Species     | Human   |
| Application          | Recommended applications are based on the parent unconjugated antibody (IF, ICC, WB). Customers may select suitable applications according to their experimental needs. |
| Clonality            | Polyclonal  |
| Formulation          | Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% Na <sub>3</sub> N.  |
| Storage Instructions | At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.  |
| Host                 | Rabbit  |
| Uniprot ID           | P22079  |

### Technical Details

|                  |  |
|------------------|--|
| Immunogen        | A synthetic peptide corresponding to a sequence in the middle region of human LPO. |
| Cross Reactivity | No cross-reactivity with other proteins.   |
| Isotype          | Rabbit IgG   |
| Form             | Liquid   |
| Concentration    | 0.5 mg/mL  |
| Purification     | Immunogen affinity purified.   |
| Conjugate        | FITC<br>Excitation Wavelength: 495 nm<br>Emission Wavelength: 525 nm               |

Suggested Dilutions

Optimal dilutions should be determined by end users.

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Anti-LPO Antibody - FITC

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