

## Anti-ALOX12 Antibody Picoband® Fluoro594 Conjugated

Catalog Number: A02275-2-Fluoro594

### About ALOX12

ALOX12, Arachidonate 12-lipoxygenase, is an enzyme that in humans is encoded by the ALOX12 gene. By fluorescence in situ hybridization, the ALOX12 gene is located in band 17p13.1. The gene consists of 14 exons with 13 introns and spans approximately 15 kb of DNA. Arachidonate 12-lipoxygenase introduces a molecular oxygen into the C-12 position of arachidonic acid to produce 12(S)-hydroperoxy-5,8,10,14-eicosatetraenoic acid. The major pathway of arachidonic acid metabolism in human platelets proceeds via a 12-lipoxygenase enzyme. Expression of the ALOX12 gene was detected in human erythroleukemia cells, platelets, and human umbilical vein endothelial cells by reverse transcription-PCR analysis.

### Overview

|                      |  |
|----------------------|--|
| Product Name         | Anti-ALOX12 Antibody Picoband® Fluoro594 Conjugated  |
| Reactive Species     | Human, Mouse, Rat  |
| Application          | Recommended applications are based on the parent unconjugated antibody (ELISA, 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% NaN <sub>3</sub> .   |
| Storage Instructions | At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.   |
| Host                 | Rabbit   |
| Uniprot ID           | P18054   |

### Technical Details

|                  |   |
|------------------|---|
| Immunogen        | E.coli-derived human ALOX12 recombinant protein (Position: A186-R628). Human ALOX12 shares 87.3% and 86% amino acid (aa) sequence identity with mouse and rat ALOX12, respectively. |
| Cross Reactivity | No cross reactivity with other proteins.  |
| Isotype          | IgG   |
| Form             | Liquid  |
| Concentration    | 0.5 mg/mL   |
| Purification     | Immunogen affinity purified.  |
| Conjugate        | Fluoro594<br>Excitation Wavelength: 593 nm<br>Emission Wavelength: 618 nm   |

Suggested Dilutions

Optimal dilutions should be determined by end users.

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Anti-ALOX12 Antibody - Fluoro594

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