

## Anti-SMOX Antibody Picoband® Fluoro647 Conjugated

Catalog Number: A05519-1-Fluoro647

### About Smox

Spermine oxidase is an enzyme that in humans is encoded by the SMOX gene. It is mapped to 2; 2 F1. Polyamines are ubiquitous polycationic alkylamines which include spermine, spermidine, putrescine, and agmatine. These molecules participate in a broad range of cellular functions which include cell cycle modulation, scavenging reactive oxygen species, and the control of gene expression. These molecules also play important roles in neurotransmission through their regulation of cell-surface receptor activity, involvement in intracellular signalling pathways, and their putative roles as neurotransmitters. This gene encodes an FAD-containing enzyme that catalyzes the oxidation of spermine to spermadine and secondarily produces hydrogen peroxide. Multiple transcript variants encoding different isoenzymes have been identified for this gene, some of which have failed to demonstrate significant oxidase activity on natural polyamine substrates. The characterized isoenzymes have distinctive biochemical characteristics and substrate specificities, suggesting the existence of additional levels of complexity in polyamine catabolism.

### Overview

|                      |  |
|----------------------|--|
| Product Name         | Anti-SMOX Antibody Picoband® Fluoro647 Conjugated  |
| Reactive Species     | Human, Mouse, Rat  |
| Application          | Flow Cytometry   |
| 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           | Q99K82   |

### Technical Details

|                  |   |
|------------------|---|
| Immunogen        | E.coli-derived mouse SMOX recombinant protein (Position: A40-P555).       |
| Cross Reactivity | No cross-reactivity with other proteins.                                  |
| Isotype          | Rabbit IgG  |
| Form             | Liquid  |
| Concentration    | 0.5 mg/mL   |
| Purification     | Immunogen affinity purified.  |
| Conjugate        | Fluoro647<br>Excitation Wavelength: 650 nm<br>Emission Wavelength: 665 nm |

Suggested Dilutions

Flow Cytometry, Optimal dilutions should be determined by end users.

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