

## Anti-Alcohol dehydrogenase class-3 ADH5 Antibody Picoband® APC Conjugated

Catalog Number: RP1111-APC

### About ADH5

Alcohol dehydrogenase class-3 is an enzyme that in humans is encoded by the ADH5 gene. This gene encodes a member of the alcohol dehydrogenase family. Members of this family metabolize a wide variety of substrates, including ethanol, retinol, other aliphatic alcohols, hydroxysteroids, and lipid peroxidation products. The encoded protein forms a homodimer. It has virtually no activity for ethanol oxidation, but exhibits high activity for oxidation of long-chain primary alcohols and for oxidation of S-hydroxymethyl-glutathione, a spontaneous adduct between formaldehyde and glutathione. This enzyme is an important component of cellular metabolism for the elimination of formaldehyde, a potent irritant and sensitizing agent that causes lacrymation, rhinitis, pharyngitis, and contact dermatitis. The human genome contains several non-transcribed pseudogenes related to this gene.

### Overview

|                      |  |
|----------------------|--|
| Product Name         | Anti-Alcohol dehydrogenase class-3 ADH5 Antibody Picoband® APC 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           | P11766   |

### Technical Details

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|------------------|--|
| Immunogen        | E. coli-derived human ADH5 recombinant protein (Position: K212-I374). Human ADH5 shares 90.2% and 92% amino acid (aa) sequence identity with mouse and rat ADH5, respectively. |
| Cross Reactivity | No cross-reactivity with other proteins.   |
| Isotype          | Rabbit IgG   |
| Form             | Liquid   |
| Concentration    | 0.5 mg/mL  |
| Purification     | Immunogen affinity purified.   |
| Conjugate        | APC  |

|                     |  |
|---------------------|--|
|                     | Excitation Wavelength: 633-647 nm<br>Emission Wavelength: 660 nm     |
| Suggested Dilutions | Flow Cytometry, Optimal dilutions should be determined by end users. |

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