

## Anti-ALDH1A2 Antibody Picoband® Fluoro488 Conjugated

Catalog Number: PB9981-Fluoro488

### About ALDH1A2

Aldehyde dehydrogenase 1 family, member A2, also known as ALDH1A2 or retinaldehyde dehydrogenase 2 (RALDH2), is an enzyme that in humans is encoded by the ALDH1A2 gene. This protein belongs to the aldehyde dehydrogenase family of proteins. The product of this gene is an enzyme that catalyzes the synthesis of retinoic acid (RA) from retinaldehyde. Retinoic acid, the active derivative of vitamin A (retinol), is a hormonal signaling molecule that functions in developing and adult tissues. The studies of a similar mouse gene suggest that this enzyme and the cytochrome CYP26A1, concurrently establish local embryonic retinoic acid levels which facilitate posterior organ development and prevent spina bifida. Four transcript variants encoding distinct isoforms have been identified for this gene.

### Overview

Product Name	Anti-ALDH1A2 Antibody Picoband® Fluoro488 Conjugated
Reactive Species	Human, Monkey
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% Na2HPO4, 0.02% NaN3.
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	O94788

### Technical Details

Immunogen	E.coli-derived human ALDH1A2 recombinant protein (Position: M1-A110). Human ALDH1A2 shares 95.5% amino acid (aa) sequence identity with both mouse and rat ALDH1A2.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Fluoro488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm

Suggested Dilutions

Optimal dilutions should be determined by end users.

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