

## Anti-AKR1B1 Antibody Picoband® Fluoro647 Conjugated

Catalog Number: PB10035-Fluoro647

### About AKR1B1

Aldo-keto reductase family 1, member B1 (aldose reductase), also known as AR, is an enzyme that in humans is encoded by the AKR1B1 gene. This gene encodes a member of the aldo/keto reductase superfamily, which consists of more than 40 known enzymes and proteins. This member catalyzes the reduction of a number of aldehydes, including the aldehyde form of glucose, and is thereby implicated in the development of diabetic complications by catalyzing the reduction of glucose to sorbitol.

### Overview

Product Name	Anti-AKR1B1 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% 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	P15121

### Technical Details

Immunogen	E. coli-derived human AKR1B1 recombinant protein (Position: L228-F316). Human AKR1B1 shares 87.5% amino acid (aa) sequence identity with both mouse and rat AKR1B1.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Fluoro647 Excitation Wavelength: 650 nm Emission Wavelength: 665 nm
Suggested Dilutions	Flow Cytometry, Optimal dilutions should be determined by end users.

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