

Anti-Sorbitol Dehydrogenase/SORD Antibody Picoband® (monoclonal, 12B10G2) Fluoro488 Conjugated

Catalog Number: M07851-1-Fluoro488

About SORD

Sorbitol dehydrogenase is an enzyme that in humans is encoded by the SORD gene. Sorbitol dehydrogenase (SORD) catalyzes the interconversion of polyols and their corresponding ketoses, and together with aldose reductase, makes up the sorbitol pathway that is believed to play an important role in the development of diabetic complications. The first reaction of the pathway (also called the polyol pathway) is the reduction of glucose to sorbitol by ALDR1 with NADPH as the cofactor. SORD then oxidizes the sorbitol to fructose using NAD(+) cofactor.

Overview

Product Name	Anti-Sorbitol Dehydrogenase/SORD Antibody Picoband® (monoclonal, 12B10G2) Fluoro488 Conjugated
Reactive Species	Human, Mouse, Rat
Application	Flow Cytometry
Clonality	Monoclonal 12B10G2
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.02% NaN ₃ .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Mouse
Uniprot ID	Q00796

Technical Details

Immunogen	E.coli-derived human Sorbitol Dehydrogenase/SORD recombinant protein (Position: N8-P357).
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Mouse IgG1
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Fluoro488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Suggested Dilutions	Flow Cytometry, Optimal dilutions should be determined by end users.

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