

## Anti-DGAT1 Antibody Picoband® Fluoro647 Conjugated

Catalog Number: PB9801-Fluoro647

### About DGAT1

Acyl-CoA: diacylglycerol acyltransferase (DGAT) is a microsomal enzyme that plays a central role in the metabolism of cellular diacylglycerol lipids and catalyzes the terminal and only committed step in triacylglycerol synthesis by using diacylglycerol (DAG) and fatty acyl CoA as substrates. DGAT had been considered necessary for adipose tissue formation and essential for survival. There are two isozymes of DGAT encoded by the genes DGAT1 and DGAT2. DGAT1 is a host factor for HCV infection that binds core protein, localizes it to DGAT1-generated lipid droplets, and recruits viral RNA replication complexes for viral assembly. DGAT2-generated lipid droplets formed normally in cells treated with the DGAT1 inhibitor, suggesting that DGAT1 inhibitors may be useful as antiviral therapeutics.

### Overview

Product Name	Anti-DGAT1 Antibody Picoband® Fluoro647 Conjugated
Reactive Species	Human, 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	O75907

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human DGAT1, different from the related mouse and rat sequences by one amino acid.
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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