

## Anti-DGAT1 Antibody Picoband® Fluoro488 Conjugated

Catalog Number: PB9801-Fluoro488

### 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® Fluoro488 Conjugated   |
| Reactive Species     | Human, Rat   |
| Application          | Recommended applications are based on the parent unconjugated antibody (WB). Customers may select suitable applications according to their experimental needs. |
| 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        | Fluoro488<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm  |

Suggested Dilutions

Optimal dilutions should be determined by end users.

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