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antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-HMGCS1 Antibody Picoband® Fluoro550 Conjugated

Catalog Number: A05313-2-Fluoro550

About HMGCS1

In molecular biology, hydroxymethylglutaryl-CoA synthase or HMG-CoA synthase EC 2.3.3.10 is an enzyme which catalyzes the reaction in which acetyl-CoA condenses with acetoacetyl-CoA to form 3-hydroxy-3-methylglutaryl-CoA (HMG-CoA). Cytoplasmic 3-hydroxy-3-methylglutaryl-CoA synthase (HMGCS1) catalyzes the first committed step of mevalonate pathway essential for cholesterol biosynthesis. HMGCS1 transcription is regulated by sterol levels. Studies showed that miR-223 reduces cholesterol biosynthesis by inhibiting HMGCS1 and methylsterol monooxygenase 1. In addition, activation of the EGFR family member ERBB4 induces the expression of SREBP-regulated genes (including HMGCS1) involved in cholesterol biosynthesis, suggesting a role of this enzyme in the metabolic re-programming in ERBB4-driven cancers.

Overview

Product Name	Anti-HMGCS1 Antibody Picoband® Fluoro550 Conjugated
Reactive Species	Human
Application	Flow Cytometry
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	Q01581

Technical Details

Immunogen	E.coli-derived human HMGCS1 recombinant protein (Position: K251-H520).
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Fluoro550 Excitation Wavelength: 562 nm Emission Wavelength: 576 nm
Suggested Dilutions	Flow Cytometry, Optimal dilutions should be determined by end users.

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Anti-HMGCS1 Antibody - Fluoro550

For Research Use Only. Not for use in diagnostic procedures.