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Datasheet for ABIN968716

anti-MTTP antibody (AA 91-288)

1 Image

6 Publications

Overview

Quantity:	50 µg
Target:	MTTP
Binding Specificity:	AA 91-288
Reactivity:	Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This MTTP antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Mouse MTP aa. 91-288
Clone:	8-MTP
Isotype:	IgG2a
Cross-Reactivity:	Rat (Rattus)
Characteristics:	<ol style="list-style-type: none">1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.2. Please refer to us for technical protocols.3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

Product Details

chromatography.

Target Details

Target: MTTP

Alternative Name: MTP ([MTTP Products](#))

Background: The microsomal triglyceride transfer protein (MTP) catalyzes the transport of triglyceride, cholesteryl ester, and phospholipid between membranes within the lumen of microsomes in hepatocytes and enterocytes. MTP forms a heterodimer with the 58 kDa protein disulfide isomerase. PDI catalyzes the isomerization of intramolecular disulfide bridges, thereby allowing them to generate their most thermodynamically stable configuration within proteins. MTP is mutated in abetalipoproteinemia, which results from defects in apolipoprotein-B (apoB)-containing lipoproteins. A lack of MTP expression prevents secretion of apoB from mammalian cells, leading to intracellular degradation. In the C-terminal region, MTP has structural homology to apoB and the lamprey lipovitellin protein. This region contains a membrane binding helix (Helix A), and a triglyceride binding helix (Helix B). Mutations in Helix B cause abetalipoproteinemia. In addition, inhibitors of MTP activity may be important therapeutics for lowering atherogenic lipoprotein levels. Thus, MTP is a microsomal protein that is required for transport of lipids between membranes in liver and small intestines.

Synonyms: Microsomal Triglyceride transfer Protein

Molecular Weight: 97 kDa

Pathways: [Transition Metal Ion Homeostasis](#)

Application Details

Comment: Related Products: ABIN968543, ABIN967389

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 250 µg/mL

Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.

Preservative: Sodium azide

Handling

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store undiluted at -20°C.

Publications

Product cited in: Chen, Newberry, Norris, Xie, Luo, Kennedy, Davidson: "ApoB100 is required for increased VLDL-triglyceride secretion by microsomal triglyceride transfer protein in ob/ob mice." in: **Journal of lipid research**, Vol. 49, Issue 9, pp. 2013-22, (2008) ([PubMed](#)).

Qin, Anderson, Adeli: "Tumor necrosis factor-alpha directly stimulates the overproduction of hepatic apolipoprotein B100-containing VLDL via impairment of hepatic insulin signaling." in: **American journal of physiology. Gastrointestinal and liver physiology**, Vol. 294, Issue 5, pp. G1120-9, (2008) ([PubMed](#)).

Morral, Edenberg, Witting, Altomonte, Chu, Brown: "Effects of glucose metabolism on the regulation of genes of fatty acid synthesis and triglyceride secretion in the liver." in: **Journal of lipid research**, Vol. 48, Issue 7, pp. 1499-510, (2007) ([PubMed](#)).

Read, Anderson, Ritchie, Vanloo, Amey, Levitt, Rosseneu, Scott, Shoulders: "A mechanism of membrane neutral lipid acquisition by the microsomal triglyceride transfer protein." in: **The Journal of biological chemistry**, Vol. 275, Issue 39, pp. 30372-7, (2000) ([PubMed](#)).

Wetterau, Gregg, Harrity, Arbeeny, Cap, Connolly, Chu, George, Gordon, Jamil, Jolibois, Kunselman, Lan, Maccagnan, Ricci, Yan, Young, Chen, Fryszman, Logan, Musial, Poss, Robl, Simpkins, Slusarchyk et al.: "An MTP inhibitor that normalizes atherogenic lipoprotein levels in WHHL rabbits. ..." in: **Science (New York, N.Y.)**, Vol. 282, Issue 5389, pp. 751-4, (1998) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



Western Blotting

Image 1. Western blot analysis of MTP on a mouse liver lysate. Lane 1: 1:2500, lane 2: 1:5000, lane 3: 1:10,000 dilution of the mouse anti-MTP antibody.