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anti-MTTP antibody (AA 91-288)



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Publications

Mouse MTP aa. 91-288



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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:

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Clone:	8-MTP
Isotype:	lgG2a
Cross-Reactivity:	Rat (Rattus)
Characteristics:	 Since applications vary, each investigator should titrate the reagent to obtain optimal results. Please refer to us for technical protocols. 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. 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

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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).

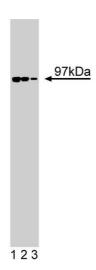
Qin, Anderson, Adeli: "Tumor necrosis factor-alpha directly stimulates the overproduction of hepatic apolipoprotein B100-containing VLDL via impairment of hepatic insulin signaling." in: **American journal of physiology. Gastrointestinal and liver physiology**, Vol. 294, Issue 5, pp. G1120-9, (2008)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