MTTP Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MTTP, Polyclonal Antibody
Full Product Name	MTTP, CT (MTTP, MTP, Microsomal triglyceride transfer protein large subunit) (MaxLight 490)
Product Gene Name	anti-MTTP antibody
Product Synonym Names	MTTP; MTP; Microsomal triglyceride transfer protein large subunit
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	894
OMIM	gene 200100
3D Structure	ModBase 3D Structure for P55157
Immunogen	MTTP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 822~851 amino acids from the C-terminal region of human MTTP.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-MTTP antibody	Antibodies; Lipoproteins
Applications Tested/Suitable for anti-MTTP antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-MTTP antibody	IHC: 1:50-100 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-MTTP antibody	MTTP encodes the large subunit of the heterodimeric microsomal triglyceride transfer protein. Protein disulfide isomerase (PDI) completes the heterodimeric microsomal triglyceride transfer protein, which has been shown to play a entral role in lipoprotein assembly. Mutations in MTP can cause abetalipoproteinemia.
Product References and Citations for anti-MTTP antibody	Dai, K., et.al., Arterioscler. Thromb. Vasc. Biol. 30 (3), 568-574 (2010). Oliveira, C.P., et.al., J. Gastroenterol. Hepatol. 25 (2), 357-361 (2010).
Other Notes	Small volumes of anti-MTTP antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for MTTP purchase	MBS6322863 is an antibody targeting MTTP. Also known as MTTP, CT (MTTP, MTP, Microsomal triglyceride transfer protein large subunit) (MaxLight 490). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MTTP. It may not necessarily be applicable to this product.

NCBI GI #	1709167
NCBI GeneID	4547
NCBI Accession #	P55157.1
UniProt Primary Accession #	P55157
UniProt Secondary Accession #	Q08AM4; Q6P5T3; A8K428
UniProt Related Accession #	P55157
NCBI Official Full Name	Microsomal triglyceride transfer protein large subunit
NCBI Official Synonym Full Names	microsomal triglyceride transfer protein
NCBI Official Symbol	MTTP
NCBI Official Synonym Symbols	ABL; MTP
UniProt Protein Name	Microsomal triglyceride transfer protein large subunit
Protein Family	Microsomal triglyceride transfer protein
UniProt Gene Name	MTTP
UniProt Synonym Gene Names	MTP
UniProt Entry Name	MTP_HUMAN
NCBI Protein Information	microsomal triglyceride transfer protein large subunit; microsomal triglyceride transfer protein (large polypeptide, 88kDa)
NCBI Summary for MTTP	MTP encodes the large subunit of the heterodimeric microsomal triglyceride transfer protein. Protein disulfide isomerase (PDI) completes the heterodimeric microsomal triglyceride transfer protein, which has been shown to play a central role in lipoprotein assembly. Mutations in MTP can cause abetalipoproteinemia. [provided by RefSeq, Jul 2008]
UniProt Comments for MTTP	MTTP: Catalyzes the transport of triglyceride, cholesteryl ester, and phospholipid between phospholipid surfaces. Required for the secretion of plasma lipoproteins that contain apolipoprotein B. Defects in MTTP are the cause of abetalipoproteinemia (ABL). ABL is an autosomal recessive disorder of lipoprotein metabolism. Affected individuals produce virtually no circulating apolipoprotein B-containing lipoproteins (chylomicrons, VLDL, LDL, lipoprotein(A)). Malabsorption of the antioxidant vitamin E occurs, leading to spinocerebellar and retinal degeneration. Protein type: Endoplasmic reticulum Chromosomal Location of Human Ortholog: 4q24 Cellular Component: endoplasmic reticulum lumen; receptor complex Molecular Function: lipid transporter activity; lipid binding Biological Process: lipoprotein metabolic process; lipid metabolic process; lipid transport Disease: Abdominal Obesity-metabolic Syndrome 1; Abetalipoproteinemia
Research Articles on MTTP	**1.** Report of two new mutations of MTTP, a nonsense mutation c.2313T > A leading to a truncated protein (p.Y771X) and a splice mutation IVS 9 + 2T > G, in abetalipoproteinemia

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