**BACKGROUND**

Microsomal triglyceride transfer protein (MTP) catalyzes the transport of cholesteryl ester, triglyceride and phospholipid between phospholipid surfaces. MTP is a heterodimer consisting of MTP and PDI (protein disulfide isomerase). It is required for the secretion of plasma lipoproteins containing apolipoprotein B. It is negatively regulated by Insulin and positively regulated by cholesterol. MTP, which localizes to the endoplasmic reticulum (ER), is expressed primarily in small intestine, liver, kidney, testis and ovary. It is not expressed in epithelial cells. Defects in the MTP gene can cause abetalipoproteinemia (ABL) which is an autosomal recessive lipoprotein metabolism disorder.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: Mtp (mouse) mapping to 3 G3.

**SOURCE**

MTP (8) is a mouse monoclonal antibody raised against amino acids 91-288 of MTP of mouse origin.

**PRODUCT**

Each vial contains 200 µg IgG2a in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures. Not for resale.

**APPLICATIONS**

MTP (8) is recommended for detection of MTP of mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)]. Suitable for use as control antibody for MTP siRNA (m): sc-45276, MTP shRNA Plasmid (m): sc-45276-SH and MTP shRNA (m) Lentiviral Particles: sc-45276-V.

Molecular Weight of MTP: 97 kDa.

Positive Controls: mouse liver extract: sc-2256, mouse small intestine extract: sc-364252 or rat liver extract: sc-2395.

**DATA**

![Western blot analysis of MTP expression](image)

**SELECT PRODUCT CITATIONS**


**STORAGE**

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.