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.

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

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

Each vial contains 200 µg IgGk kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

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.

To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgGk BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

See our web site at www.scbt.com for detailed protocols and support products.

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