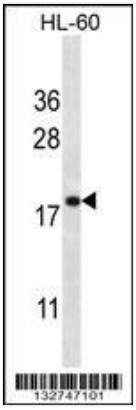
TMM70 Antibody – Rabbit Polyclonal

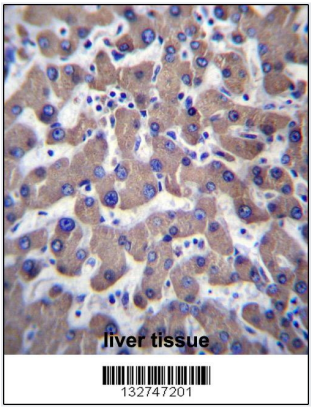
PRODUCT OVERVIEW

Product Name	TMM70, Polyclonal Antibody
Full Product Name	TMM70, CT (TMEM70, Transmembrane protein 70, mitochondrial) (Azide free) (HRP)
Product Gene Name	anti-TMM70 antibody
Product Synonym Gene Name	TMEM70
Product Synonym Names	TMEM70; Transmembrane protein 70, mitochondrial
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 Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	11,278 Da
OMIM	gene 614052
3D Structure	ModBase 3D Structure for Q9BUB7
Immunogen	TMM70 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 230-260 amino acids from the C-terminal region of human TMM70.
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-TMM70 antibody	Antibodies; Transmembrane Proteins
Applications Tested/Suitable for anti-TMM70 antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-TMM70 antibody	IHC: 1:10-50 ELISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-TMM70 antibody	This gene likely encodes a mitochondrial membrane protein. The encoded protein may play a role in biogenesis of mitochondrial ATP synthase. Mutations in this gene have been associated with neonatal mitochondrial encephalocardiomyopathy due to ATP synthase deficiency. Alternatively spliced transcript variants have been described.
Product References and Citations for anti-TMM70 antibody	Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010). Karasik, D., et al. J. Bone Miner. Res. 25(7):1555-1563(2010). Honzik, T., et al. Arch. Dis. Child. 95(4):296-301(2010). Davila, S., et al. Genes Immun. 11(3):232-238(2010). Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009).

Other Notes	Small volumes of anti-TMM70 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 TMM70 purchase	MBS6356585 is an antibody targeting TMM70. Also known as TMM70, CT (TMEM70, Transmembrane protein 70, mitochondrial) (Azide free) (HRP). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-TMM70 antibody
TMM70 Antibody (C-term) western blot analysis in HL-60 cell line lysates (35ug/lane).This demonstrates the TMM70 antibody detected the TMM70 protein (arrow).



Immunohistochemistry (IHC) of anti-TMM70 antibody
TMM70 Antibody (C-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of TMM70 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TMM70. It may not necessarily be applicable to this product.

NCBI GI #	34147498
NCBI GeneID	54968
NCBI Accession #	NP_060336.3
UniProt Primary Accession #	Q9BUB7
UniProt Secondary Accession #	Q9NWY5; E9PDY9
UniProt Related Accession #	Q9BUB7
GenBank Nucleotide #	NM_017866.5
NCBI Official Full Name	transmembrane protein 70, mitochondrial isoform a
NCBI Official Synonym Full Names	transmembrane protein 70
NCBI Official Symbol	TMEM70
NCBI Official Synonym Symbols	MC5DN2
UniProt Protein Name	Transmembrane protein 70, mitochondrial
UniProt Gene Name	TMEM70
UniProt Entry Name	TMM70_HUMAN
NCBI Protein Information	transmembrane protein 70, mitochondrial

UniProt Comments for TMM70	TMEM70: Involved in biogenesis of mitochondrial ATP synthase. Defects in TMEM70 are a cause of mitochondrial complex V deficiency nuclear type 2 (MC5DN2). A mitochondrial disorder with heterogeneous clinical manifestations including dysmorphic features, psychomotor retardation, hypotonia, growth retardation, cardiomyopathy, enlarged liver, hypoplastic kidneys and elevated lactate levels in urine, plasma and cerebrospinal fluid. Belongs to the TMEM70 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Mitochondrial; Membrane protein, integral; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 8q21.11 Cellular Component: nucleoplasm; mitochondrion; mitochondrial inner membrane Biological Process: mitochondrial proton-transporting ATP synthase complex assembly Disease: Mitochondrial Complex V (atp Synthase) Deficiency, Nuclear Type 2
Research Articles on TMM70	**1.** These data indicate that the biological function of TMEM70 in the ATP synthase biogenesis may be mediated through interaction with other protein(s).
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