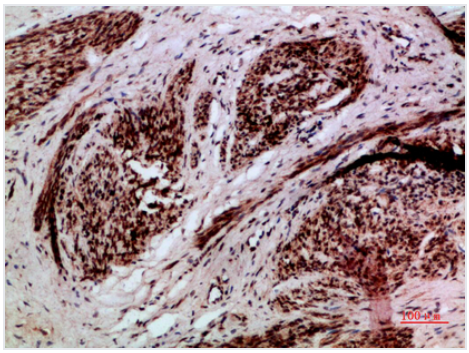
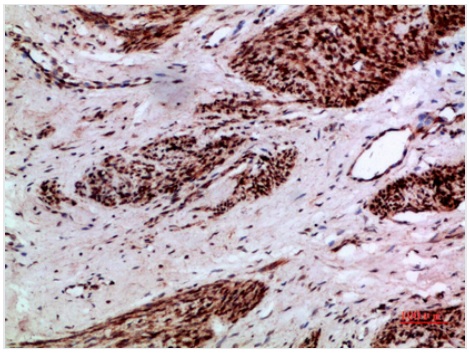
TMPO Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

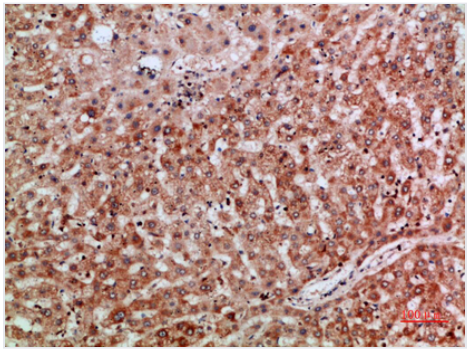
Product Name	TMPO, Polyclonal Antibody
Full Product Name	TMPO Polyclonal Antibody
Product Gene Name	anti-TMPO antibody
Product Synonym Names	TMPO LAP2
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	PBS, pH 7.4, containing 0.02% sodium azide as Preservative and 50% Glycerol.
Purity/Purification	Affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
Concentration	1 mg/ml (lot specific)
Specificity	The antibody detects endogenous TMPO protein
Preparation and Storage	Store at -20 degree C
Molecular Weight	135 kDa
OMIM	U09086 mRNA
3D Structure	ModBase 3D Structure for P42166
Immunogen	Synthetic peptide from human protein at AA range: 1-50
Immunogen Type	Protein
Product Categories/Family for anti-TMPO antibody	Total protein Ab
Applications Tested/Suitable for anti-TMPO antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-TMPO antibody	WB: 1:500-1:10000 IHC: 1:100-1:300
Related Product Information for anti-TMPO antibody	MBS9419741 is an antibody targeting TMPO. Also known as TMPO Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-TMPO 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.



Immunohistochemistry (IHC) of anti-TMPO antibody
Immunohistochemical analysis of paraffin-embedded human-cervical-cancer, antibody was diluted at 1:200



Immunohistochemistry (IHC) of anti-TMPO antibody
Immunohistochemical analysis of paraffin-embedded human-cervical-cancer, antibody was diluted at 1:200



Immunohistochemistry (IHC) of anti-TMPO antibody
Immunohistochemical analysis of paraffin-embedded human-liver, antibody was diluted at 1:200

ADDITIONAL DETAILS

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

NCBI GI #	4507555
NCBI GeneID	7112
NCBI Accession #	NP_003267.1
UniProt Primary Accession #	P42166
UniProt Secondary Accession #	P08918; P08919; Q14860; Q16295
UniProt Related Accession #	P42166; P42167
GenBank Nucleotide #	NM_003276.2
NCBI Official Full Name	thymopoietin isoform alpha
NCBI Official Synonym Full Names	thymopoietin
NCBI Official Symbol	TMPO
NCBI Official Synonym Symbols	TP; LAP2; CMD1T; LEMD4; PRO0868
UniProt Protein Name	Lamina-associated polypeptide 2, isoform alpha
UniProt Synonym Protein Names	Thymopoietin isoform alpha; TP alpha
Protein Family	Lamina-associated polypeptide
UniProt Gene Name	TMPO
UniProt Synonym Gene Names	LAP2; TP alpha; TPRP isoform alpha; TP

NCBI Protein Information	thymopoietin
NCBI Summary for TMPO	The protein encoded by this gene resides in the nucleus and may play a role in the assembly of the nuclear lamina, and thus help maintain the structural organization of the nuclear envelope. It may function as a receptor for the attachment of lamin filaments to the inner nuclear membrane. Mutations in this gene are associated with dilated cardiomyopathy. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, May 2010]
UniProt Comments for TMPO	TMPO iso6: a single-pass type II membrane protein. Tightly associated with the nuclear lamina. Binds DNA and involved in DNA replication and chromatin remodeling, May help direct the assembly of the nuclear lamina and thereby help maintain the structural organization of the nuclear envelope. Possible receptor for attachment of lamin filaments to the inner nuclear membrane. May be involved in the control of initiation of DNA replication through its interaction with HAP95. Associated with dilated cardiomyopathy; upregulated in medulloblastoma. Used as a pharmaceutical to treat primary and secondary immune deficiencies, autoimmunity, infections and cancer. Available under the names Timunox (Cilag), Sintomodulina (Italofarmaco) and Mepentil (Recordati). Three alternatively spliced isoforms have been described. Protein type: DNA-binding; Membrane protein, integral Chromosomal Location of Human Ortholog: 12q23.1 Cellular Component: chromatin; nucleus Molecular Function: cadherin binding; lamin binding Disease: Cardiomyopathy, Dilated, 1t
Research Articles on TMPO	**1.** Study found TMPO is significantly upregulated in glioblastoma tissues.TMPO knockdown promoted cell apoptosis by upregulation of the cleavage of caspase-3 and PARP protein levels.
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