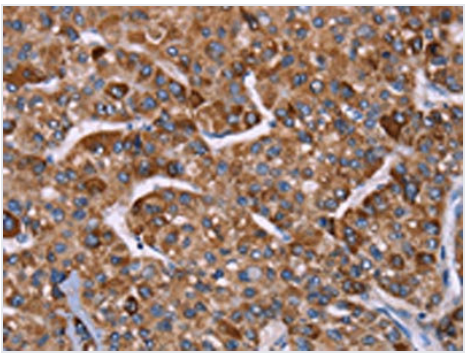
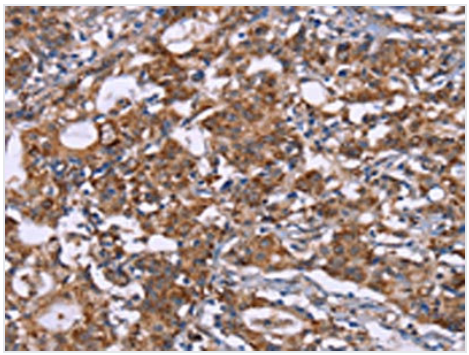
HSPE1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HSPE1, Polyclonal Antibody
Full Product Name	HSPE1 Antibody
Product Gene Name	anti-HSPE1 antibody
Product Synonym Names	heat shock 10kDa protein 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid; In Phosphate Buffered Saline, pH 7.4, 0.05% NaN3, and 40% Glycerol
Purity/Purification	Antigen Affinity Purification
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	10,932 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (198364721..198368187). Location: 2q33.1
OMIM	600141
3D Structure	ModBase 3D Structure for P61604
Immunogen	Synthetic peptide of human HSPE1
Immunogen Species	Human
Conjugate	Non-conjugated
Product Categories/Family for anti-HSPE1 antibody	Signal Transduction
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-HSPE1 antibody	ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-HSPE1 antibody	ELISA: 1:2000-1:5000 IHC: 1:50-1:200
Related Product Information for anti-HSPE1 antibody	MBS7129080 is an antibody targeting HSPE1. Also known as HSPE1 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-HSPE1 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)-Paraffin of anti-HSPE1 antibody
The image on the left is immunohistochemistry of paraffin-embedded Human liver cancer tissue using MBS7129080(HSPE1 Antibody) at dilution 1/40, on the right is treated with synthetic peptide. (Original magnification: ×200)



Immunohistochemistry (IHC)-Paraffin of anti-HSPE1 antibody
The image on the left is immunohistochemistry of paraffin-embedded Human gastric cancer tissue using MBS7129080(HSPE1 Antibody) at dilution 1/40, on the right is treated with synthetic peptide. (Original magnification: ×200)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HSPE1. It may not necessarily be applicable to this product.

NCBI GI #	4504523
NCBI GeneID	3336
NCBI Accession #	NP_002148.1
UniProt Primary Accession #	P61604
UniProt Secondary Accession #	O95421; Q04984; Q53X54; Q9UDH0
UniProt Related Accession #	P61604
GenBank Nucleotide #	NM_002157.2
NCBI Official Full Name	10 kDa heat shock protein, mitochondrial
NCBI Official Synonym Full Names	heat shock 10kDa protein 1 (chaperonin 10)
NCBI Official Symbol	HSPE1
NCBI Official Synonym Symbols	EPF; CPN10; GROES; HSP10
UniProt Protein Name	10 kDa heat shock protein, mitochondrial
UniProt Synonym Protein Names	10 kDa chaperonin; Chaperonin 10; CPN10; Early-pregnancy factor
UniProt Gene Name	HSPE1
UniProt Synonym Gene Names	Hsp10; CPN10; EPF
UniProt Entry Name	CH10_HUMAN
NCBI Protein Information	10 kDa heat shock protein, mitochondrial; chaperonin 10; 10 kDa chaperonin; early-pregnancy factor; heat shock 10kD protein 1 (chaperonin 10)
NCBI Summary for HSPE1	This gene encodes a major heat shock protein which functions as a chaperonin. Its structure consists of a heptameric ring which binds to another heat shock protein in order to form a symmetric, functional heterodimer which enhances protein folding in an ATP-dependent manner. This gene and its co-chaperonin, HSPD1, are arranged in a head-to-head orientation on chromosome 2. Naturally occurring read-through transcription occurs between this locus and the neighboring locus MOBKL3.[provided by RefSeq, Feb 2011]

UniProt Comments for HSPE1	HSPE1: Eukaryotic CPN10 homolog which is essential for mitochondrial protein biogenesis, together with CPN60. Binds to CPN60 in the presence of Mg-ATP and suppresses the ATPase activity of the latter. Belongs to the GroES chaperonin family. Protein type: Mitochondrial Chromosomal Location of Human Ortholog: 2q33.1 Cellular Component: membrane; mitochondrion; mitochondrial matrix Molecular Function: protein binding; chaperone binding; unfolded protein binding; ATP binding Biological Process: caspase activation; osteoblast differentiation; protein folding; response to unfolded protein
Research Articles on HSPE1	**1.** Data show that that in presence of 300 mg/mL Ficoll the thermodynamic stability of each cpn10 monomer increases by over 30%, whereas the interfaces are stabilized by less than 10%.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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