

Rabbit Cpn10 Polyclonal Antibody | anti-HSPE1 antibody

Anti-Cpn10 antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA45158	Rabbit	Human, Mouse, Rat	Immunocytochemistry, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

Cpn10; Polyclonal Antibody; Anti-Cpn10 antibody; 10 kDa heat shock protein; mitochondrial(Hsp10); heat shock 10kDa protein 1(chaperonin 10); 10 kDa chaperonin antibody; 10 kDa heat shock protein mitochondrial antibody; mitochondrial antibody; CH10_HUMAN antibody; Chaperonin 10 antibody; Cpn 10 antibody; CPN10 antibody; Early pregnancy factor antibody; Early-pregnancy factor antibody; EPF antibody; GROES antibody; Heat shock 10kD protein 1 antibody; Heat shock 10kD protein 1 chaperonin 10 antibody; Heat shock 10kDa protein 1 antibody; Heat shock 10kDa protein 1 chaperonin 10 antibody; HSP 10 antibody; HSP10 antibody; HSPE 1 antibody; HSPE1 antibody; anti-HSPE1 antibody

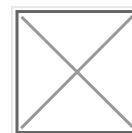
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized
Sequence Length	102
Applicable Applications for anti-HSPE1 antibody	ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Cpn10 (81-102aa VVLDDKDYFLFRDGDILGKYVD), different from the related rat and mouse sequences by one amino acid.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



IHC (Immunohistochemistry)
Anti-Cpn10 antibody, AAA45158, IHC(P)IHC(P): Rat Intestine Tissue



IHC (Immunohistochemistry)
Anti-Cpn10 antibody, AAA45158, IHC(P)IHC(P): Mouse Intestine Tissue



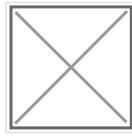
IHC (Immunohistochemisry)

Anti-Cpn10 antibody, AAA45158, IHC(P)IHC(P): Human Intestinal Cancer Tissue



WB (Western Blot)

Anti-Cpn10 antibody, AAA45158, Western blottingAll lanes: Anti Cpn10 (AAA45158) at 0.5ug/mlLane 1: Rat Thymus Tissue Lysate at 50ugLane 2: Rat Brain Tissue Lysate at 50ugLane 3: Rat Ovary Tissue Lysate at 50ugLane 4: Rat Testis Tissue Lysate at 50ugLane 5: A431 Whole Cell Lysate at 40ugLane 6: A549 Whole Cell Lysate at 40ugLane 7: MCF-7 Whole Cell Lysate at 40ugLane 8: MM231 Whole Cell Lysate at 40ugLane 9: HELA Whole Cell Lysate at 40ugPredicted bind size: 11KDObserved bind size: 11KD



ICC (Immunocytochemistry)

Anti-Cpn10 antibody, AAA45158, ICCICC: A549 Cell

ADDITIONAL INFORMATION

Related Product Information for anti-HSPE1 antibody

Description: Rabbit IgG polyclonal antibody for 10 kDa heat shock protein, mitochondrial(HSPE1) detection. Tested with WB, IHC-P, ICC in Human, Mouse, Rat.

Background: HSPE1(heat shock 10kDa protein 1(chaperonin 10)), also called CPN10, GROES, CHAPERONIN 10 HOMOLOG, cpn10 HOMOLOG or HSP10, is a protein that in humans is encoded by the HSPE1 gene. GroES is a heptameric ring of identical 10.4-kD subunits that binds to each end of GroEL to form a symmetric, functional heterodimer. The HSP10 gene consists of 4 exons. The HSPE1 gene is mapped to 2q33.1. The transcriptional activity of the promoter fragment in the HSP60 direction is approximately twice that in the HSP10 direction under normal growth conditions; upon heat shock, promoter activity in either direction increased by a factor of approximately 12. Mutational drifts performed in vitro with 4 different enzymes indicated the GroES overexpression doubled the number of accumulating mutations, and promoted the folding of enzyme variants carrying mutations in the protein core and/or mutations with higher destabilizing effects.

NCBI AND UNIPROT INFORMATION

NCBI GI #	47606335
NCBI GeneID	3336
UniProt Accession #	P61604; O95421; Q04984; Q53X54; Q9UDH0
Molecular Weight	10,932 Da
NCBI Official Full Name	10 kDa heat shock protein, mitochondrial
NCBI Official Synonym Full Names	heat shock 10kDa protein 1
NCBI Official Symbol	HSPE1
NCBI Official Synonym Symbols	EPF; CPN10; GROES; HSP10
NCBI Protein Information	10 kDa heat shock protein, mitochondrial; chaperonin 10; 10 kDa chaperonin; early-pregnancy factor; heat shock 10kD protein 1 (chaperonin 10)
UniProt Protein Name	10 kDa heat shock protein, mitochondrial
UniProt Gene Name	HSPE1
UniProt Synonym Gene Names	Hsp10; CPN10; EPF
UniProt Entry Name	CH10_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

