Rabbit Cpn10 Polyclonal Antibody | anti-HSPE1 antibody

Cpn10 Antibody: Biotin

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA103553	**Rabbit**	**Human, Mouse, Rat, Bovine, Canine, Guinea pig, Pig, Rabbit, Sheep, Xenopus**	**Immunofluorescence, ELISA, Immunoprecipitation, Western Blot**

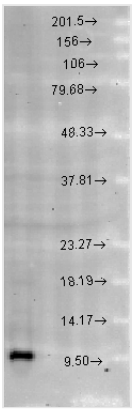
PRODUCT SYNONYMS

Cpn10; Polyclonal Antibody; Cpn10 Antibody: Biotin; 10kDa Chaperonin; Chaperonin 10; Cpn 10; EPF; GROES; Heat Shock 10kD protein1; Hsp10; HSPE1; anti-HSPE1 antibody

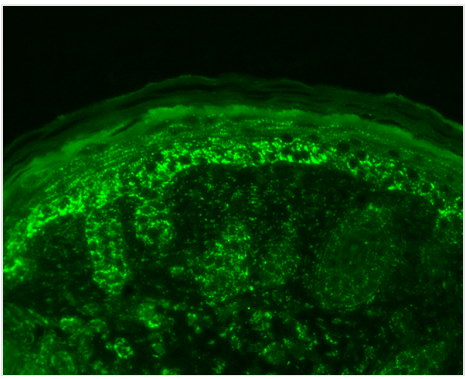
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat, Bovine, Canine, Guinea pig, Pig, Rabbit, Sheep, Xenopus
Clonality	Polyclonal
Form/Format	Protein A Purified
Concentration	1mg/mL (varies by lot)
Sequence Length	102
Applicable Applications for anti-HSPE1 antibody	IF (Immunofluorescence), ELISA, IP (Immunoprecipitation), WB (Western Blot)
Conjugate	Biotin
Storage Buffer	PBS pH 7.3, 0.02% sodium azide
Preparation and Storage	-20 degree C

IMAGES



WB (Western Blot)
Western blot analysis of Rat brain cell lysates showing detection of Cpn10 protein using Rabbit Anti-Cpn10 Polyclonal Antibody (SPC-193). Load: 15 ugprotein. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Rabbit Anti-Cpn10 Polyclonal Antibody (SPC-193) at 1:1000 for 2 hours at RT. Secondary Antibody: Donkey Anti-Rabbit IgG: HRP for 1 hour at RT.



IHC (Immunohistochemistry)
Immunohistochemistry analysis using Rabbit Anti-Cpn10 Polyclonal Antibody (SPC-193). Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative Solution. Primary Antibody: Rabbit Anti-Cpn10 Polyclonal Antibody (SPC-193) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Rabbit (green) at 1:50 for 1 hour at RT. Localization: Strong basal layer punctate staining in the cytoplasm, weakens as it ascends to upper epidermis.

ADDITIONAL INFORMATION

Related Product Information for anti-HSPE1 antibody	**Background Info:** Detects ~ 10kDa **Scientific Background:** Chaperonin 10, otherwise known as Cpn10, (groES in E.coli) make up a family of small heart shock proteins with an approximate molecular mass of 10kDa (Hsp10s). Cpn10 acts as a co-chaperone and interacts with the Hsp60 family to promote proper folding of polypeptides. Cpn10 and Cpn60 both exhibit sevenfold axis of symmetry and function as a team in the protein folding and assembly process (1). Cpn10 has been located in human platelets, but is also present in human maternal serum (2, 3). It has been reported that human Cpn10 is identical with early pregnancy factor, which is involved in control over cell growth and development. This identification suggest that Cpn10 may act like a hormone in stressful situations such as pregnancy (4).
Product Categories/Family for anti-HSPE1 antibody	Chaperones; Heat Shock; Organelle Markers
References	1. Velez-Granell C.S., et al. (1994) J of Cell Science. 107(3): 539-549. 2. Morton H., Hegh V., and Clunie G.J.A. (1974) Nature (London) 249: 459-460. 3. Cavanagh A.C., and Morton H. (1994) Eur. J. Biochem. 222: 551-560. 4. Minto M., et al. (1998) Molecular Cell Research. 1403 (2): 151-157.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504523
NCBI GeneID	3336
NCBI Accession #	NP_002148.1
NCBI GenBank Nucleotide #	NM_002157.2
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.

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Online datasheet: https://stage.aaabiotech.com/polyclonal/cpn10-antibody-immunofluorescence-immunoprecipitation-western-blot-elisa/103553