# Rabbit Cpn10 Polyclonal Antibody | anti-HSPE1 antibody

Cpn10 Antibody: HRP

| CATALOG # | HOST | REACTIVITY | APPLICATIONS |
|---|---|---|---|
| **AAA103613** | **Rabbit** | **Human, Mouse, Rat, Bovine, Canine, Guinea pig, Pig, Rabbit, Sheep, Xenopus** | **Immunofluorescence, ELISA, Immunoprecipitation, Western Blot** |

## PRODUCT SYNONYMS

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

## PRODUCT SPECIFICATIONS

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| **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** | HRP |
| **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

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| **Related Product Information for anti-HSPE1 antibody** | **Background Info:** Detects ~ 10kDa<br><br>**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

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| **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/103613