

ARG20535 anti-Cpn 10 antibody (FITC)

Package: 50 µg
Store at: -20°C

Summary

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| Product Description | FITC-conjugated Rabbit Polyclonal antibody recognizes Cpn 10 |
| Tested Reactivity | Hu, Ms, Rat, Bov, Dog, Gpig, Pig, Rb, Sheep, Xenopus laevis |
| Tested Application | ELISA, ICC/IF, IHC-P |
| Host | Rabbit |
| Clonality | Polyclonal |
| Target Name | Cpn 10 |
| Species | Human |
| Immunogen | Synthetic peptide around aa. 91-101 of Human Cpn10. |
| Conjugation | FITC |
| Alternate Names | HSP10; 10 kDa chaperonin; CPN10; Early-pregnancy factor; Hsp10; GROES; EPF; Chaperonin 10; 10 kDa heat shock protein, mitochondrial |

Application Instructions

| Application table | Application | Dilution |
|-------------------|--|-----------------|
| | ELISA | Assay-dependent |
| | ICC/IF | Assay-dependent |
| | IHC-P | Assay-dependent |
| | | |
| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |

Properties

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| Form | Liquid |
| Purification | Purification with Protein A. |
| Buffer | PBS (pH 7.3) and 0.02% Sodium azide |
| Preservative | 0.02% Sodium azide |
| Concentration | 1 mg/ml |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Keep the antibody in the dark and keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

Bioinformation

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| Gene Symbol | HSPE1 |
| Gene Full Name | heat shock 10kDa protein 1 |
| 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. Cpn10 has been located in human platelets, but is also present in human maternal serum. 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. |
| Function | 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. [UniProt] |
| Research Area | Metabolism antibody; Signaling Transduction antibody |
| Calculated Mw | 11 kDa |
| Cellular Localization | Mitochondrion Matrix |