ARG45242
anti-CENPF antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Polyclonal antibody recognizes CENPF
Tested Reactivity	Hu
Tested Application	FACS, ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Target Name	CENPF
Species	Human
Immunogen	Recombinant protein containing to human CENPF.
Conjugation	Un-conjugated
Alternate Names	CENPF; Centromere Protein F; Mitosin; Hcp-1; Centromere Protein F, 350/400kDa; Kinetochore Protein CENPF; AH Antigen; Centromere Protein F, 350/400kDa (Mitosin); Cell-Cycle-Dependent 350K Nuclear Protein; CENP-F Kinetochore Protein; PRO1779; CILD31; STROMS; CENP-F; CENF

Application Instructions

Application table

Application	Dilution
FACS	1 - 3 µg/10^6 cells
ICC/IF	5 µg/ml
WB	0.25-0.5 µg/ml

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Observed Size: 358 kDa

Properties

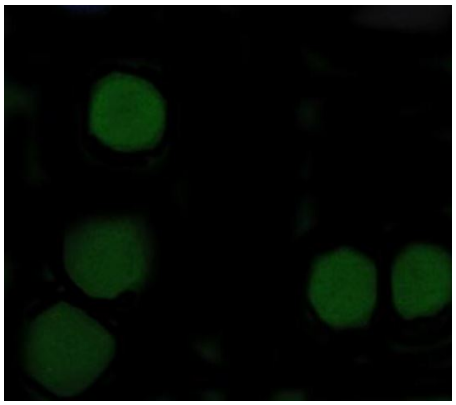
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na2HPO4, 0.9% NaCl and 4% Trehalose.
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. 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

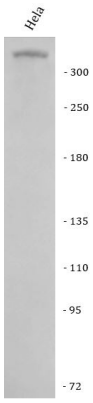
Gene Symbol	CENPF
Gene Full Name	Centromere Protein F
Background	This gene encodes a protein that associates with the centromere-kinetochore complex. The protein is a component of the nuclear matrix during the G2 phase of interphase. In late G2 the protein associates with the kinetochore and maintains this association through early anaphase. It localizes to the spindle midzone and the intracellular bridge in late anaphase and telophase, respectively, and is thought to be subsequently degraded. The localization of this protein suggests that it may play a role in chromosome segregation during mitotis. It is thought to form either a homodimer or heterodimer. Autoantibodies against this protein have been found in patients with cancer or graft versus host disease. [provided by RefSeq, Jul 2008]
Function	Required for kinetochore function and chromosome segregation in mitosis. Required for kinetochore localization of dynein, LIS1, NDE1 and NDEL1. Regulates recycling of the plasma membrane by acting as a link between recycling vesicles and the microtubule network though its association with STX4 and SNAP25. Acts as a potential inhibitor of pocket protein-mediated cellular processes during development by regulating the activity of RB proteins during cell division and proliferation. May play a regulatory or permissive role in the normal embryonic cardiomyocyte cell cycle and in promoting continued mitosis in transformed, abnormally dividing neonatal cardiomyocytes. Interaction with RB directs embryonic stem cells toward a cardiac lineage. Involved in the regulation of DNA synthesis and hence cell cycle progression, via its C-terminus. Has a potential role regulating skeletal myogenesis and in cell differentiation in embryogenesis. Involved in dendritic cell regulation of T-cell immunity against chlamydia.. [UniProt]
Calculated Mw	358 kDa
PTM	Acetylation ; Lipoprotein ; Methylation ; Phosphoprotein ; Prenylation. [UniProt]
Cellular Localization	Centromere ; Chromosome ; Cytoplasm ; Cytoskeleton ; Kinetochore ; Nucleus. [UniProt]

Images



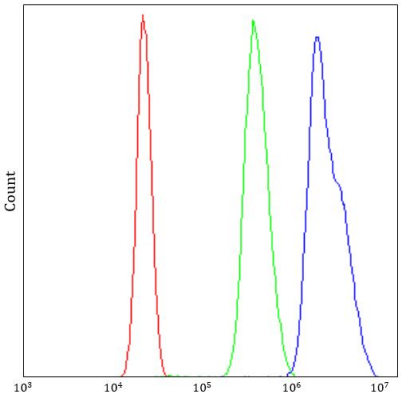
ARG45242 anti-CENPF antibody ICC/IF image

Immunofluorescence: SiHa stained with ARG45242 anti-CENPF antibody at 5 ug/ml dilution.



ARG45242 anti-CENPF antibody WB image

Western blot: Hela stained with ARG45242 anti-CENPF antibody at 0.5 µg/ml dilution.



ARG45242 anti-CENPF antibody FACS image

Flow Cytometry: HepG2 stained with ARG45242 anti-CENPF antibody at 1 µg/10^6 cells dilution.