Rabbit anti-Human, Mouse CENPF Polyclonal Antibody | anti-CENPF antibody

CENPF Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA323376	**Rabbit**	**Human, Mouse**	**ELISA, Immunohistochemistry, Western Blot**

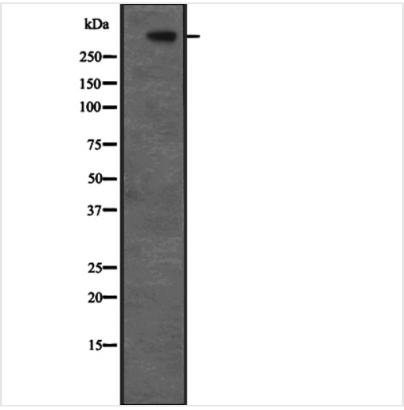
PRODUCT SYNONYMS

CENPF; Polyclonal Antibody; CENPF Antibody; AH antigen; Cell cycle dependent 350K nuclear protein; CENF; CENP F; CENP F kinetochore protein; CENP-F; CENPF kinetochore protein; CENPF_HUMAN; Centromere protein F 350/400ka; Centromere protein F; 350/400kDa; CILD31; Hcp 1; Hcp1; Kinetochore protein CENP F; Kinetochore protein CENPF; Mitosin; PRO1779; STROMS; anti-CENPF antibody

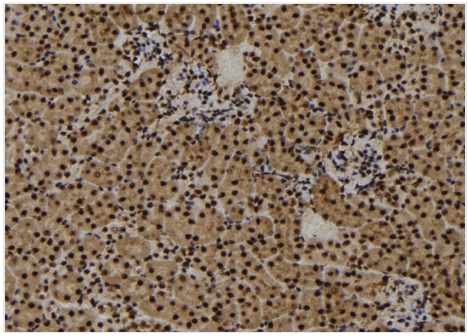
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	CENPF antibody detects endogenous levels of total CENPF.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	3114
Applicable Applications for anti-CENPF antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human CENPF.
Subcellular Location	Cytoplasm, Perinuclear Region. Nucleus Matrix. Chromosome, Centromere, Kinetochore. Cytoplasm, Cytoskeleton, Spindle. Relocalizes to the kinetochore/centromere (coronal surface of the outer plate) and the spindle during mitosis. Observed in nucleus during interphase but not in the nucleolus. At metaphase becomes localized to areas including kinetochore and mitotic apparatus as well as cytoplasm. By telophase, is concentrated within the intracellular bridge at either side of the mid-body.
Tissue Specificity	Gradually accumulates during the cell cycle, reaching peak levels in G2 and M phase, and is rapidly degraded upon completion of mitosis.
Predicted Cross Reactivity	**Pig**
Similarity	Pig (82%)
Conjugation	Unconjugated

IMAGES



WB (Western Blot)
Western blot analysis of CENPF expression in Hela cell lysate, The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)
AAA323376 at 1/100 staining Mouse kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-CENPF antibody	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. Subunit Structure: Interacts with and STX4 (via C-terminus) (By similarity). Interacts (via N-terminus) with RBL1, RBL2 and SNAP25 (By similarity). Self-associates. Interacts with CENP-E and BUBR1 (via C-terminus). Interacts (via C-terminus) with NDE1, NDEL1 and RB1. Post-translational Modifications: Hyperphosphorylated during mitosis. Similarity: Belongs to the centromere protein F family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	55770834
NCBI GeneID	1063
NCBI Accession #	NP_057427.3
NCBI GenBank Nucleotide #	NM_016343.3
UniProt Accession #	P49454; Q13171; Q13246; Q5VVM7
Molecular Weight	Observed: 367 kDa Predicted: 368 kDa
NCBI Official Full Name	centromere protein F
NCBI Official Synonym Full Names	centromere protein F
NCBI Official Symbol	CENPF
NCBI Official Synonym Symbols	CENF; hcp-1; CILD31; STROMS; PRO1779
NCBI Protein Information	centromere protein F
UniProt Protein Name	Centromere protein F

UniProt Gene Name	**CENPF**
UniProt Synonym Gene Names	CENP-F

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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