

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

Anti-CENPF Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126299	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

CENPF; Polyclonal Antibody; Anti-CENPF Antibody Picoband; anti-CENPF antibody

PRODUCT SPECIFICATIONS

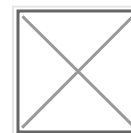
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-CENPF antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human CENPF recombinant protein (Position: Q129-R3078).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of HepG2 cells using anti-CENPF antibody (AAA126299). Overlay histogram showing HepG2 cells stained with AAA126299 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CENPF Antibody (AAA126299, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 2. IF analysis of CENPF using anti-CENPF antibody (AAA126299). CENPF was detected in an immunocytochemical section of SiHa cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-CENPF Antibody (AAA126299) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of CENPF using anti-CENPF antibody (AAA126299). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-CENPF antigen affinity purified polyclonal antibody (#AAA126299) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for CENPF at approximately 358 kDa. The expected band size for CENPF is at 358 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-CENPF antibody	Centromere protein F is a protein that in humans is encoded by the CENPF gene. 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 mitosis. 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.
Product Categories/Family for anti-CENPF antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	55770833
NCBI GeneID	1063
NCBI Accession #	NP_057427.3
NCBI GenBank Nucleotide #	NM_016343
UniProt Accession #	P49454; Q13171; Q13246; Q5VVM7
Molecular Weight	367,764 Da
NCBI Official Full Name	Homo sapiens centromere protein F, 350/400kDa (CENPF), mRNA
NCBI Official Synonym Full Names	centromere protein F, 350/400kDa
NCBI Official Symbol	CENPF
NCBI Official Synonym Symbols	CENF; hcp-1; PRO1779
NCBI Protein Information	centromere protein F; AH antigen; CENP-F kinetochore protein; cell-cycle-dependent 350K nuclear protein; centromere protein F, 350/400kDa (mitosin); centromere protein F, 350/400ka (mitosin); kinetochore protein CENPF
UniProt Protein Name	Centromere protein F
UniProt Gene Name	CENPF
UniProt Synonym Gene Names	CENP-F
UniProt Entry Name	CENPF_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.

