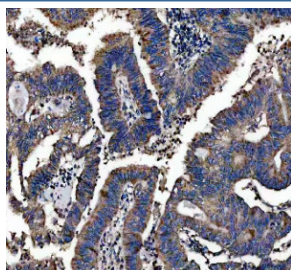


CEP55 Antibody / Cytokines Protein Antibody (FY13486)

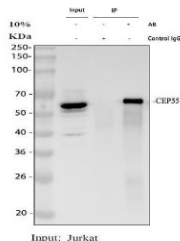
Catalog No.	Formulation	Size
FY13486	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml	100 ug

[Bulk quote request](#)

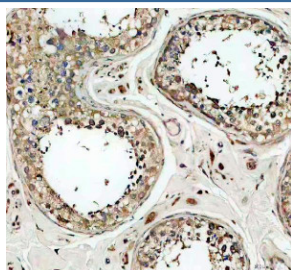
Species Reactivity	Human, Mouse, Rat
Format	Lyophilized
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Immunogen affinity purified
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
UniProt	Q53EZ4
Applications	Western Blot : 0.25-0.5ug/ml Flow Cytometry : 1-3ug/million cells ELISA : 0.1-0.5ug/ml Immunofluorescence : 5ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Immunoprecipitation : 2ug per 500ug of lysate
Limitations	This CEP55 Antibody / Cytokines Protein Antibody is available for research use only.



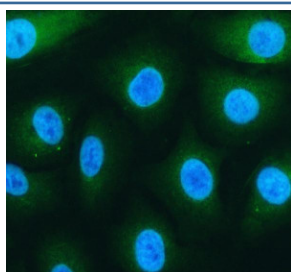
CEP55 Antibody Human Colon Cancer IHC. Immunohistochemical staining of FFPE human colon cancer tissue using CEP55 antibody at 2 ug/ml following heat-induced epitope retrieval in pH8 EDTA buffer. Detection was performed using an HRP-conjugated secondary antibody with DAB chromogen. CEP55 immunoreactivity is observed predominantly within the cytoplasm of malignant epithelial cells, with widespread staining throughout the tumor tissue, consistent with the elevated expression of this cytokines regulator frequently reported in proliferating cancer cells. This result demonstrates that the CEP55 Antibody / Cytokines Protein Antibody is suitable for immunohistochemical detection of endogenous CEP55 in formalin-fixed, paraffin-embedded human tissues.



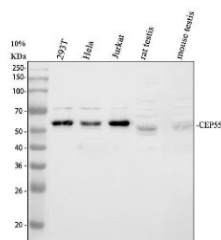
CEP55 Antibody Human Jurkat Cell IP. Immunoprecipitation of endogenous CEP55 from human Jurkat whole cell lysate followed by Western blot detection with CEP55 antibody. Lane 1: input Jurkat whole cell lysate. Lane 2: immunoprecipitation using rabbit control IgG. Lane 3: immunoprecipitation using CEP55 antibody. A distinct band is detected at approximately 54 kDa in the input lysate and in the CEP55 immunoprecipitate, while no corresponding band is observed in the control IgG sample, demonstrating specific immunoprecipitation of endogenous CEP55. This result demonstrates that the CEP55 Antibody / Cytokinesis Protein Antibody is suitable for immunoprecipitation and subsequent Western blot analysis of CEP55 in human cell lysates.



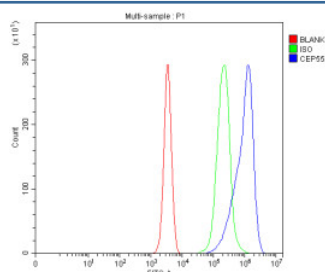
CEP55 Antibody Human Testicular Cancer IHC. Immunohistochemical staining of FFPE human testicular cancer tissue using CEP55 antibody at 2 ug/ml following heat-induced epitope retrieval in pH8 EDTA buffer. Detection was performed using an HRP-conjugated secondary antibody with DAB chromogen. CEP55 immunoreactivity is observed predominantly within the cytoplasm of tumor cells, with widespread staining throughout the neoplastic tissue, consistent with the increased expression of this cytokinesis regulator in actively proliferating cells. This result demonstrates that the CEP55 Antibody / Cytokinesis Protein Antibody is suitable for immunohistochemical detection of endogenous CEP55 in formalin-fixed, paraffin-embedded human tissues.



CEP55 Antibody Human A549 Cell IF. Immunofluorescent staining of A549 cells using CEP55 antibody following enzyme-mediated antigen retrieval for 15 minutes. Cells were incubated with CEP55 antibody at 5 ug/ml and detected with a Fluoro488-conjugated secondary antibody (green), with DAPI used as the nuclear counterstain (blue). CEP55 immunoreactivity is observed predominantly within the cytoplasm with diffuse perinuclear staining, consistent with the localization of this cytokinesis regulator during cell growth and division. This result demonstrates that the CEP55 Antibody / Cytokinesis Protein Antibody is suitable for immunofluorescent detection and subcellular localization of endogenous CEP55 in cultured human cells.



CEP55 Antibody Human Cell, Mouse and Rat Testis WB. Western blot analysis of CEP55 expression in multiple cell and tissue lysates. Lane 1: human HEK293T whole cell lysate. Lane 2: human HeLa whole cell lysate. Lane 3: human Jurkat whole cell lysate. Lane 4: rat testis tissue lysate. Lane 5: mouse testis tissue lysate. Proteins were detected using CEP55 antibody at 0.5 ug/ml. A specific band is observed at approximately 54 kDa in each sample, consistent with the predicted molecular weight of CEP55. This result demonstrates that the CEP55 Antibody / Cytokinesis Protein Antibody is suitable for Western blot detection of endogenous CEP55 in human, rat, and mouse samples.



CEP55 Antibody Human Jurkat Cell FACS. Flow cytometric analysis of fixed and permeabilized human Jurkat cells stained with CEP55 antibody at 1 ug/10⁶ cells (blue). The isotype control is shown in green and the unstained control in red. A clear rightward shift in fluorescence intensity is observed in the CEP55 antibody-stained population compared with both control populations, demonstrating specific detection of endogenous CEP55 expression. This result demonstrates that the CEP55 Antibody / Cytokinesis Protein Antibody is suitable for intracellular flow cytometric analysis of CEP55 in cultured human cells.

Description

CEP55 Antibody / Cytokinesis Protein Antibody recognizes CEP55, a centrosome-associated protein that plays an essential role during the final stages of cell division. Although initially identified as a centrosomal protein, CEP55 is now best known for its critical function at the midbody during cytokinesis, where it coordinates the recruitment of protein

complexes required for membrane abscission and successful separation of daughter cells. Expression of CEP55 is tightly regulated throughout the cell cycle, reaching its highest levels during mitosis and cytokinesis. Because of its indispensable role in cell division, a CEP55 Antibody is widely used to investigate mitotic progression, cytokinesis, centrosome biology, and mechanisms regulating cellular proliferation.

CEP55 functions as a scaffold protein that recruits components of the ESCRT machinery, including TSG101 and ALIX, to the midbody during late cytokinesis. These interactions promote membrane remodeling and completion of abscission, allowing physical separation of daughter cells after chromosome segregation. Failure of CEP55 function can disrupt cytokinesis, resulting in multinucleated cells, genomic instability, and abnormal centrosome numbers. In addition to its role in cytokinesis, CEP55 has been implicated in signaling pathways that regulate cell survival, proliferation, and migration. A CEP55 Antibody enables researchers to study these processes while examining the molecular mechanisms that ensure accurate cell division.

Aberrant CEP55 expression has been reported in numerous human malignancies, including breast, lung, colorectal, liver, ovarian, prostate, gastric, and pancreatic cancers. Elevated CEP55 levels frequently correlate with increased tumor grade, aggressive disease, metastatic potential, and poor clinical prognosis. Because uncontrolled cell division is a hallmark of cancer, CEP55 has attracted considerable attention as both a biomarker and a potential therapeutic target. Beyond oncology, inherited alterations affecting CEP55 have been linked to developmental disorders characterized by defects in cell proliferation and tissue formation. Consequently, a CEP55 Antibody has become an important research reagent in cancer biology, developmental biology, and cell cycle studies.

CEP55 is routinely analyzed using Western blot, immunohistochemistry, immunofluorescence, immunoprecipitation, and flow cytometry to evaluate protein expression, intracellular localization, and regulation during the cell cycle. Immunofluorescence studies are particularly valuable for visualizing CEP55 localization at the centrosome and midbody during mitosis and cytokinesis. Researchers often combine CEP55 analysis with markers of centrosomes, mitotic spindles, midbodies, and ESCRT-associated proteins to gain a more comprehensive understanding of cell division. NSJ Bioreagents provides carefully validated antibodies to support these applications across multiple experimental systems. A CEP55 Antibody / Cytokinesis Protein Antibody is a valuable research tool for investigating cytokinesis, mitotic regulation, midbody organization, and the molecular mechanisms that control accurate cell division.

Explore our [Cell Cycle Antibodies](#) page to discover validated antibodies for CEP55 and other proteins involved in cytokinesis, mitotic progression, centrosome function, chromosome segregation, and cell division.

Application Notes

Optimal dilution of the CEP55 Antibody / Cytokinesis Protein Antibody should be determined by the researcher.

Immunogen

E.coli-derived human CEP55 recombinant protein (amino acids M1-A350) was used as the immunogen for the CEP55 antibody.

Storage

After reconstitution, the CEP55 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.

Alternate Names

CEP55 antibody, Cytokinesis Protein antibody, Centrosomal Protein of 55 antibody, FLJ10540 antibody

