

CENP-F (D6X4L) Rabbit mAb

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Applications: W, IF-IC, FC-FP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 450	Source/Isotype: Rabbit IgG	UniProt ID: #P49454	Entrez-Gene Id: 1063
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Product Usage Information**Application**

Western Blotting
Immunofluorescence (Immunocytochemistry)
Flow Cytometry (Fixed/Permeabilized)

Dilution

1:1000
1:800
1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #57905.

Specificity/Sensitivity

CENP-F (D6X4L) Rabbit mAb recognizes endogenous levels of total CENP-F protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala1794 of human CENP-F protein.

Background

CENP-F (mitosin), is a kinetochore-associated protein whose expression and localization to chromatin is regulated in a cell cycle-dependent manner, with its highest expression in G2/M phases (1, 2). CENP-F is required for appropriate localization of other kinetochore-associated proteins, including CENP-E. CENP-F regulates kinetochore function and maintenance of the mitotic spindle checkpoint. Farnesylation of CENP-F is required for its localization and function (3). CENP-F also interacts with the mitochondrial protein, miro, to direct the distribution of mitochondria to daughter cells as they exit mitosis (4). Researchers have shown that CENP-F drives prostate tumor growth synergistically with FOXM1 in human and mouse (5), and that the gene for CENP-F is among those frequently amplified in hepatocellular, head and neck, and esophageal carcinomas (6-8). CENP-F expression has also been shown in research studies to be associated with poor prognosis in breast cancer (9).

Background References

1. Rattner, J.B. et al. (1993) *Cell Motil Cytoskeleton* 26, 214-26.
2. Liao, H. et al. (1995) *J Cell Biol* 130, 507-18.
3. Ma, L. et al. (2006) *J Biomed Sci* 13, 205-13.
4. Kanfer, G. et al. (2015) *Nat Commun* 6, 8015.
5. Aytes, A. et al. (2014) *Cancer Cell* 25, 638-51.
6. Kim, H.E. et al. (2012) *PLoS One* 7, e43223.
7. Pimkhaokham, A. et al. (2000) *Jpn J Cancer Res* 91, 1126-33.
8. de la Guardia, C. et al. (2001) *Head Neck* 23, 104-12.
9. O'Brien, S.L. et al. (2007) *Int J Cancer* 120, 1434-43.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IF-IC:** Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human

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