10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Centromere protein F / mitosin Antibody (C-Term)

Peptide-affinity purified goat antibody
Catalog # AF2279a

Specification

Centromere protein F / mitosin Antibody (C-Term) - Product Information

Application	**E**
Primary Accession	P49454
Other Accession	AAA82889.1, AAA82935.1, AAA86889.1, 1063
Predicted	**Human, Cow**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5 mg/ml**
Isotype	**IgG**
Calculated MW	**357527**

Centromere protein F / mitosin Antibody (C-Term) - Additional Information

Gene ID 1063

Other Names
Centromere protein F, CENP-F, AH antigen, Kinetochore protein CENPF, Mitosin, CENPF

Format
0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Centromere protein F / mitosin Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

Centromere protein F / mitosin Antibody (C-Term) - Protein Information

Name CENPF

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.

Cellular Location
Cytoplasm, perinuclear region. Nucleus matrix. Chromosome, centromere, kinetochore. Cytoplasm, cytoskeleton, spindle Note=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

Centromere protein F / mitosin Antibody (C-Term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Centromere protein F / mitosin Antibody (C-Term) - Images

Centromere protein F / mitosin Antibody (C-Term) - Background

The immunizing peptide shows one mismatch with the corresponding sequence of the NCBI-curated isoform NP_057427.3.

Centromere protein F / mitosin Antibody (C-Term) - References

CENP-F is a protein of the nuclear matrix that assembles onto kinetochores at late G2 and is rapidly degraded after mitosis. Liao H, Winkfein RJ, Mack G, Rattner JB, Yen TJ. J Cell Biol. 1995 Aug;130(3):507-18. PMID: 7542657