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FKSG14 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant CENPK.
Catalog # AT2059a

Product Information

Application	WB, IF, E
Primary Accession	Q9BS16
Other Accession	BC005400
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	1G2-1B10
Calculated MW	31655

Additional Information

Gene ID	64105
Other Names	Centromere protein K, CENP-K, Interphase centromere complex protein 37, Protein AF-5alpha, p33, CENPK, ICEN37
Target/Specificity	CENPK (AAH05400.1, 1 a.a. ~ 269 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	FKSG14 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

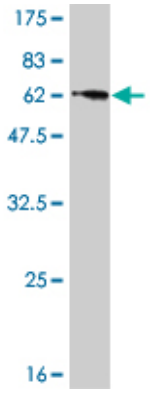
CENPK is a subunit of a CENPH (MIM 605607)-CENPI (MIM 300065)-associated centromeric complex that targets CENPA (MIM 117139) to centromeres and is required for proper kinetochore function and mitotic progression (Okada et al., 2006 [PubMed 16622420]).

References

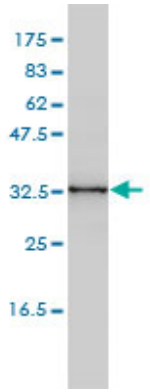
KNL1 and the CENP-H/I/K complex coordinately direct kinetochore assembly in vertebrates. Cheeseman IM, et al. Mol Biol Cell, 2008 Feb. PMID 18045986.Comprehensive analysis of the ICEN (Interphase Centromere Complex) components enriched in the CENP-A chromatin of human cells. Izuta H, et al. Genes Cells, 2006

Jun. PMID 16716197.The CENP-H-I complex is required for the efficient incorporation of newly synthesized CENP-A into centromeres. Okada M, et al. Nat Cell Biol, 2006 May. PMID 16622420.The human CENP-A centromeric nucleosome-associated complex. Foltz DR, et al. Nat Cell Biol, 2006 May. PMID 16622419.The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.

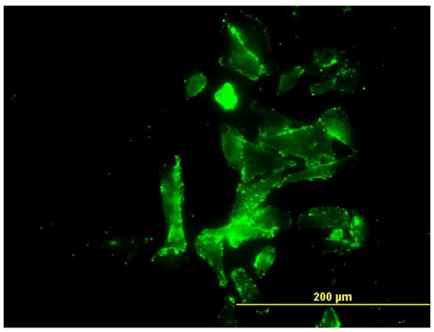
Images



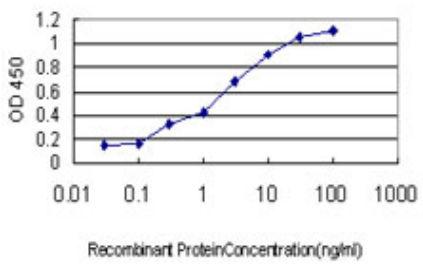
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (55.33 KDa) .



CENPK monoclonal antibody (M01), clone 1G2-1B10 Western Blot analysis of CENPK expression in HepG2 ((Cat # AT2059a)



Immunofluorescence of monoclonal antibody to CENPK on HepG2 cell. [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged FKSG14 is approximately 0.03ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.