

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

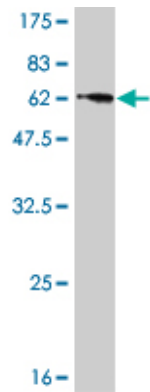
CENPK is a subunit of a CENPH (MIM 605607)-CENPI (MIM 300065)-associated centromeric complex that targets CENPA (MIM 117139) to centromeres and is required for proper kinetochore function and mitotic progression (Okada et al., 2006 [PubMed 16622420]).

References

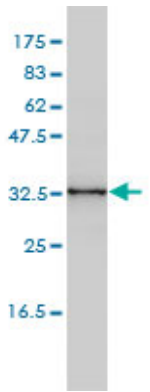
KNL1 and the CENP-H/I/K complex coordinately direct kinetochore assembly in vertebrates. Cheeseman IM, et al. Mol Biol Cell, 2008 Feb. PMID 18045986. Comprehensive analysis of the ICEN (Interphase Centromere Complex) components enriched in the CENP-A chromatin of human cells. Izuta H, et al. Genes Cells,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

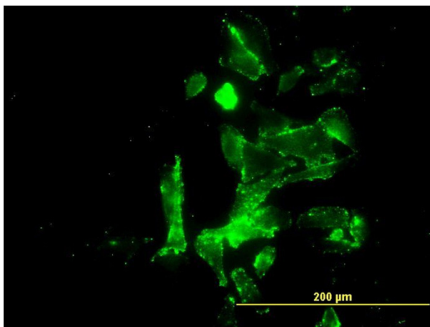
Images



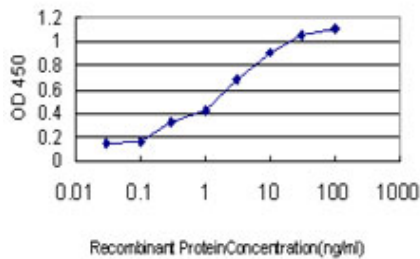
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (55.33 KDa) .



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'.