

**FKSG14 Antibody (monoclonal) (M01)****Mouse monoclonal antibody raised against a full length recombinant CENPK.****Catalog # AT2059a****Specification**

---

**FKSG14 Antibody (monoclonal) (M01) - Product Information**

|                   |                          |
|-------------------|--------------------------|
| Application       | WB, IF, E                |
| Primary Accession | <a href="#">Q9BS16</a>   |
| Other Accession   | <a href="#">BC005400</a> |
| Reactivity        | Human                    |
| Host              | mouse                    |
| Clonality         | Monoclonal               |
| Isotype           | IgG1 Kappa               |
| Calculated MW     | 31655                    |

**FKSG14 Antibody (monoclonal) (M01) - 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.

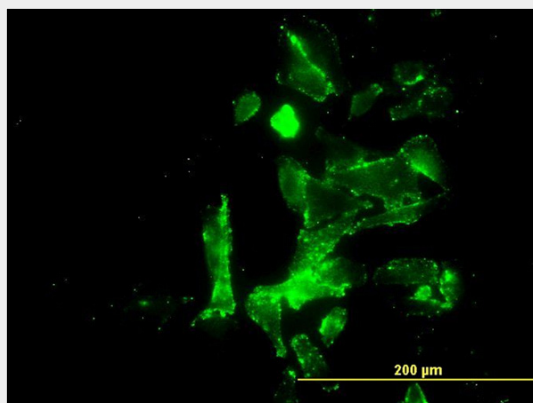
**FKSG14 Antibody (monoclonal) (M01) - Protocols**

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

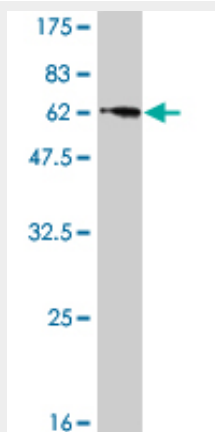
- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

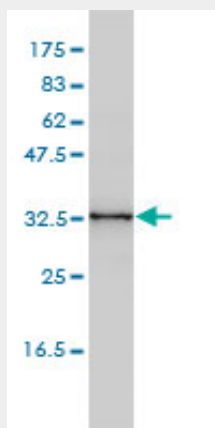
### FKSG14 Antibody (monoclonal) (M01) - Images



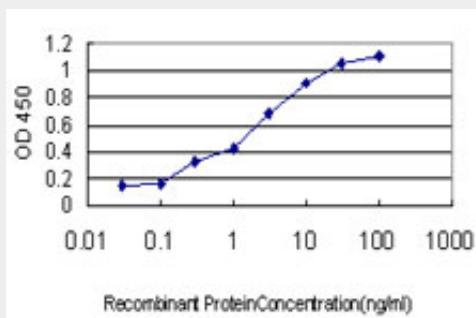
Immunofluorescence of monoclonal antibody to CENPK on HepG2 cell. [antibody concentration 10 ug/ml]



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)



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

### **FKSG14 Antibody (monoclonal) (M01) - 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]).

### **FKSG14 Antibody (monoclonal) (M01) - 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.