

**CCNG2 Antibody (monoclonal) (M01)**

Mouse monoclonal antibody raised against a full length recombinant CCNG2.

Catalog # AT1421a

**Specification**

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**CCNG2 Antibody (monoclonal) (M01) - Product Information**

Application	IF, WB
Primary Accession	<a href="#">Q16589</a>
Other Accession	<a href="#">BC032518</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2b Kappa
Calculated MW	38866

**CCNG2 Antibody (monoclonal) (M01) - Additional Information**

**Gene ID** 901

**Other Names**

Cyclin-G2, CCNG2

**Target/Specificity**

CCNG2 (AAH32518, 1 a.a. ~ 344 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Dilution**

WB~~1:500~1000

**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**

CCNG2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

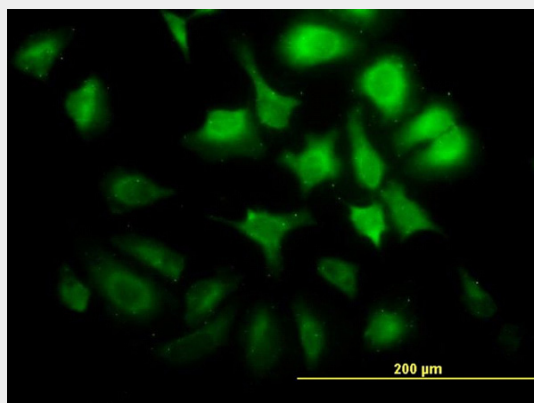
**CCNG2 Antibody (monoclonal) (M01) - Protocols**

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

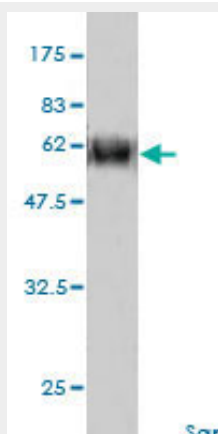
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

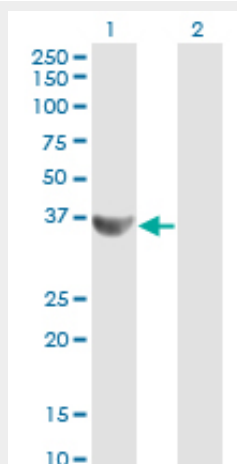
### CCNG2 Antibody (monoclonal) (M01) - Images



Immunofluorescence of monoclonal antibody to CCNG2 on HeLa cell. [antibody concentration 10 ug/ml]



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (63.58 KDa) .



Western Blot analysis of CCNG2 expression in transfected 293T cell line by CCNG2 monoclonal

antibody (M01), clone 1F9-C11.

Lane 1: CCNG2 transfected lysate(39 KDa).

Lane 2: Non-transfected lysate.

### **CCNG2 Antibody (monoclonal) (M01) - Background**

The eukaryotic cell cycle is governed by cyclin-dependent protein kinases (CDKs) whose activities are regulated by cyclins and CDK inhibitors. The 8 species of cyclins reported in mammals, cyclins A through H, share a conserved amino acid sequence of about 90 residues called the cyclin box. The amino acid sequence of cyclin G is well conserved among mammals. The nucleotide sequence of cyclin G1 and cyclin G2 are 53% identical. Unlike cyclin G1, cyclin G2 contains a C-terminal PEST protein destabilization motif, suggesting that cyclin G2 expression is tightly regulated through the cell cycle.

### **CCNG2 Antibody (monoclonal) (M01) - References**

An approach based on a genome-wide association study reveals candidate loci for narcolepsy. Shimada M, et al. Hum Genet, 2010 Oct. PMID 20677014. Cell cycle genes and ovarian cancer susceptibility: a tagSNP analysis. Cunningham JM, et al. Br J Cancer, 2009 Oct 20. PMID 19738611. Expression levels of cyclin G2, but not cyclin E, correlate with gastric cancer progression. Choi MG, et al. J Surg Res, 2009 Dec. PMID 19559447. Cyclin G2 is degraded through the ubiquitin-proteasome pathway and mediates the antiproliferative effect of activin receptor-like kinase 7. Xu G, et al. Mol Biol Cell, 2008 Nov. PMID 18784254. Cotylenin A, a new differentiation inducer, and rapamycin cooperatively inhibit growth of cancer cells through induction of cyclin G2. Kasukabe T, et al. Cancer Sci, 2008 Aug. PMID 18754885.