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CCNG2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant CCNG2.
Catalog # AT1421a

Specification

CCNG2 Antibody (monoclonal) (M01) - Product Information

Application	**WB, IF**
Primary Accession	Q16589
Other Accession	BC032518
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
IF~~1:50~200

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

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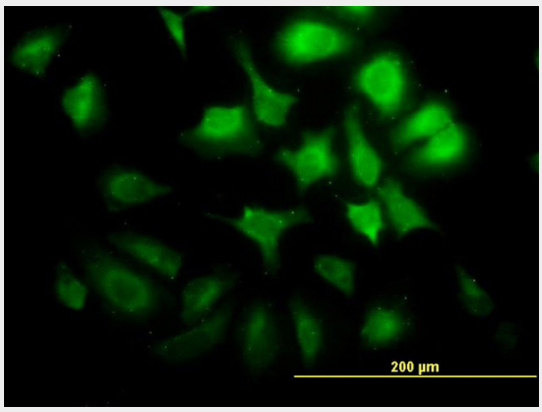
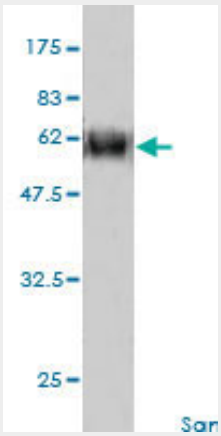
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

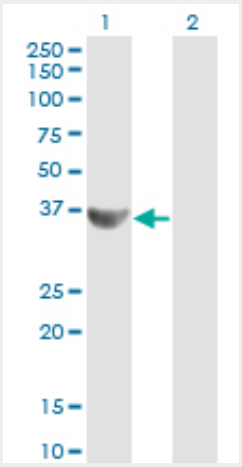
CCNG2 Antibody (monoclonal) (M01) - Images



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) .



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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.