

**CDC14A Antibody (monoclonal) (M01)****Mouse monoclonal antibody raised against a partial recombinant CDC14A.****Catalog # AT1455a****Specification**

---

**CDC14A Antibody (monoclonal) (M01) - Product Information**

Application	WB, IF, E
Primary Accession	<a href="#">O9UNH5</a>
Other Accession	<a href="#">NM_003672</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2b Kappa
Calculated MW	66574

**CDC14A Antibody (monoclonal) (M01) - Additional Information****Gene ID** 8556**Other Names**

Dual specificity protein phosphatase CDC14A, CDC14 cell division cycle 14 homolog A, CDC14A

**Target/Specificity**

CDC14A (NP\_003663, 431 a.a. ~ 530 a.a) partial 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**

CDC14A Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

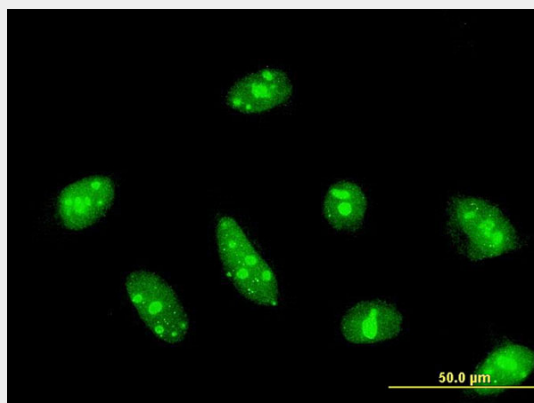
**CDC14A Antibody (monoclonal) (M01) - Protocols**

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

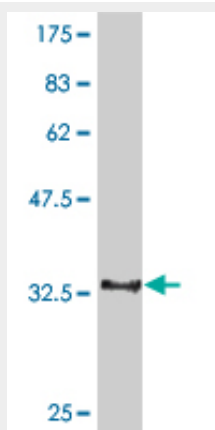
- [Western Blot](#)
- [Blocking Peptides](#)

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

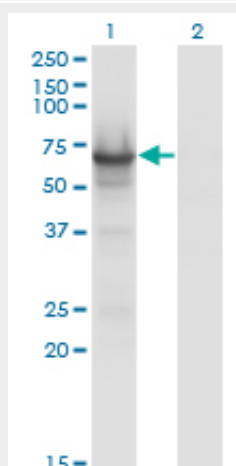
### CDC14A Antibody (monoclonal) (M01) - Images



Immunofluorescence of monoclonal antibody to CDC14A on HeLa cell . [antibody concentration 10 ug/ml]



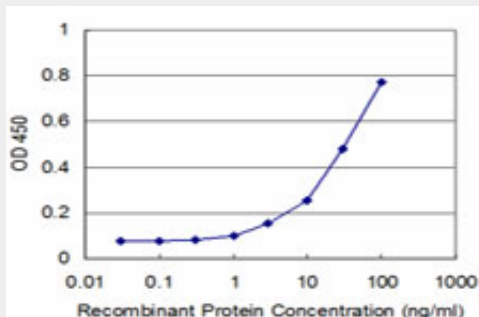
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .



Western Blot analysis of CDC14A expression in transfected 293T cell line by CDC14A monoclonal antibody (M01), clone 2C12.

Lane 1: CDC14A transfected lysate(66.6 KDa).

Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged CDC14A is approximately 3ng/ml as a capture antibody.

### **CDC14A Antibody (monoclonal) (M01) - Background**

The protein encoded by this gene is a member of the dual specificity protein tyrosine phosphatase family. It is highly similar to *Saccharomyces cerevisiae* Cdc14, a protein tyrosine phosphatase involved in the exit of cell mitosis and initiation of DNA replication, suggesting a role in cell cycle control. This protein has been shown to interact with, and dephosphorylate tumor suppressor protein p53, and is thought to regulate the function of p53. Alternative splicing of this gene results in several transcript variants encoding distinct isoforms.

### **CDC14A Antibody (monoclonal) (M01) - References**

Centrosome-related genes, genetic variation, and risk of breast cancer. Olson JE, et al. *Breast Cancer Res Treat*, 2010 May 28. PMID 20508983. Vertebrate cells genetically deficient for Cdc14A or Cdc14B retain DNA damage checkpoint proficiency but are impaired in DNA repair. Mocciaro A, et al. *J Cell Biol*, 2010 May 17. PMID 20479464. Mutational analysis of mononucleotide repeats in dual specificity tyrosine phosphatase genes in gastric and colon carcinomas with microsatellite instability. Song SY, et al. *APMIS*, 2010 May. PMID 20477815. Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. *Mol Med*, 2010 Jul-Aug. PMID 20379614. Brap2 facilitates HsCdc14A Lys-63 linked ubiquitin modification. Chen JS, et al. *Biotechnol Lett*, 2009 May. PMID 19152073.