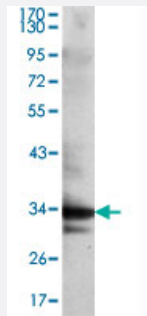


CDC2 monoclonal antibody, clone 8C5A7F10

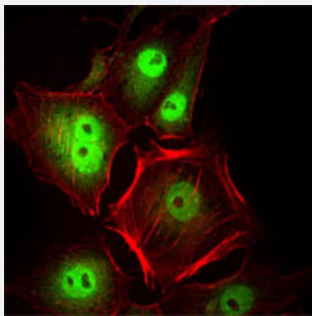
Catalog # MAB10544 Size 100 uL

Applications



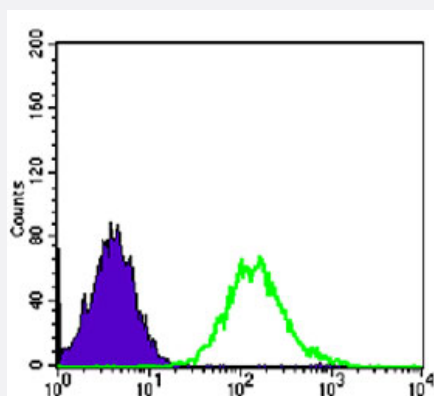
Western Blot (Cell lysate)

Western blot analysis using CDC2 monoclonal antibody, clone 8C5A7F10 (Cat # MAB10544) against Jurkat cell lysate.



Immunofluorescence

Immunofluorescence analysis of HeLa cells using CDC2 monoclonal antibody, clone 8C5A7F10 (Cat # MAB10544) (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



Flow Cytometry

Flow cytometric analysis of PC-2 cells using CDC2 monoclonal antibody, clone 8C5A7F10 (Cat # MAB10544) (green) and negative control (purple).

Specification

Product Description

Mouse monoclonal antibody raised against partial recombinant CDC2.

Immunogen	Recombinant protein corresponding to human CDC2.
Host	Mouse
Theoretical MW (kDa)	34
Reactivity	Human
Form	Liquid
Isotype	IgG1
Recommend Usage	ELISA (1:10000) Western Blot (1:500-1:2000) Immunofluorescence (1:200-1:1000) Flow cytometry (1:200-1:400) The optimal working dilution should be determined by the end user.
Storage Buffer	In ascites (0.03% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis using CDC2 monoclonal antibody, clone 8C5A7F10 (Cat # MAB10544) against Jurkat cell lysate.

- Immunofluorescence

Immunofluorescence analysis of HeLa cells using CDC2 monoclonal antibody, clone 8C5A7F10 (Cat # MAB10544) (green).
Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

- Enzyme-linked Immunoabsorbent Assay

- Flow Cytometry

Flow cytometric analysis of PC-2 cells using CDC2 monoclonal antibody, clone 8C5A7F10 (Cat # MAB10544) (green) and negative control (purple).

Gene Info — CDC2

Entrez GeneID

[983](#)

Gene Name	CDC2
Gene Alias	CDC28A, CDK1, DKFZp686L20222, MGC111195
Gene Description	cell division cycle 2, G1 to S and G2 to M
Omim ID	116940
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein is a catalytic subunit of the highly conserved protein kinase complex known as M-phase promoting factor (MPF), which is essential for G1/S and G2/M phase transitions of eukaryotic cell cycle. Mitotic cyclins stably associate with this protein and function as regulatory subunits. The kinase activity of this protein is controlled by cyclin accumulation and destruction through the cell cycle. The phosphorylation and dephosphorylation of this protein also play important regulatory roles in cell cycle control. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]
Other Designations	OTTHUMP00000019660 cell cycle controller CDC2 cell division control protein 2 homolog cell division cycle 2 protein cyclin-dependent kinase 1 p34 protein kinase

Pathway

- [Cell cycle](#)
- [Gap junction](#)
- [p53 signaling pathway](#)

Disease

- [Alzheimer disease](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Dementia](#)
- [Genetic Predisposition to Disease](#)
- [Lung Neoplasms](#)
- [Pulmonary Disease](#)