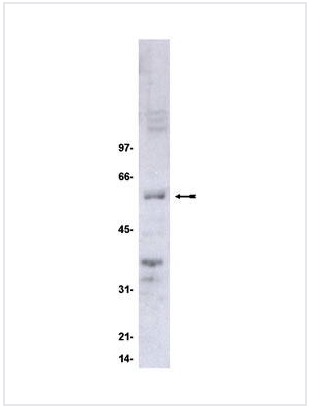
CDC25C Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CDC25C, Monoclonal Antibody
Full Product Name	CDC25C (Cell Division Cycle 25 Homolog C, Cdc 25C, CDC 25, Dual Specificity Phosphatase Cdc25C, M-phase Inducer Phosphatase 3, MPIP3, PPP1R60) (MaxLight 490)
Product Gene Name	anti-CDC25C antibody
Product Synonym Names	Cell Division Cycle 25C Protein; EC=3.1.3.48; Mitosis Inducer CDC25
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	0.T.16
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein G Affinity Chromatography
Specificity	Recognizes human cdc25C doublet at 56kD and 59kD, as well as proteins at 40kD and 35kD. Species Crossreactivity: Human.
Preparation and Storage	Store at 4 degree C. Do Not Freeze.
Molecular Weight	53,365 Da
Chromosome Location	Chromosome: 5; NC_000005.9 (137620959..137667516, complement). Location: 5q31
OMIM	157680
3D Structure	ModBase 3D Structure for P30307
Immunogen	GST fusion-protein corresponding to residues 1-258 of human cdc25C. Epitope mapped to residues 222-246.
Conjugate	MaxLight490
Product Categories/Family for anti-CDC25C antibody	Antibodies; Cell Division Cycle (CDC)
Applications Tested/Suitable for anti-CDC25C antibody	Immunocytochemistry (ICC), Immunohistochemistry (IHC), Immunoprecipitation (IP), Western Blot (WB)
Related Product Information for anti-CDC25C antibody	MBS6245284 is an antibody targeting CDC25C. Also known as CDC25C (Cell Division Cycle 25 Homolog C, Cdc 25C, CDC 25, Dual Specificity Phosphatase Cdc25C, M-phase Inducer Phosphatase 3, MPIP3, PPP1R60) (MaxLight 490). Reactive in Human. Host: Mouse.
Product References and Citations for anti-CDC25C antibody	1. Dalal, S.N., et al., Mol. Cell Biol. 19: 4465-4479 (1999). 2. Peng, C.Y., et al., Science 277: 1501-1504 (1997). 3. O' Connor, P.M., et al., PNAS USA 91: 9480-9484 (1994). 4. Villa-Moruzzi, E., et al., Biochem. Biophys. Res. Commun. 196: 1248-1254 (1993).
Other Notes	Small volumes of anti-CDC25C antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-CDC25C antibody
WB: HeLa nuclear extract probed with MBS602875 at 1ug/ml.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CDC25C. It may not necessarily be applicable to this product.

NCBI GI #	125625350
NCBI GeneID	995
NCBI Accession #	NP_001781.2
UniProt Primary Accession #	P30307
UniProt Secondary Accession #	Q96PL3; Q9H168; Q9H2E8; Q9H2E9; Q9H2F1; D3DQB8
UniProt Related Accession #	P30307
GenBank Nucleotide #	NM_001790
NCBI Official Full Name	M-phase inducer phosphatase 3 isoform a
NCBI Official Synonym Full Names	cell division cycle 25C
NCBI Official Symbol	CDC25C
NCBI Official Synonym Symbols	CDC25; PPP1R60
UniProt Protein Name	M-phase inducer phosphatase 3
UniProt Synonym Protein Names	Dual specificity phosphatase Cdc25C
UniProt Gene Name	CDC25C
UniProt Entry Name	MPIP3_HUMAN
NCBI Protein Information	M-phase inducer phosphatase 3; mitosis inducer CDC25; phosphotyrosine phosphatase; dual specificity phosphatase CDC25C; protein phosphatase 1, regulatory subunit 60
NCBI Summary for CDC25C	This gene is highly conserved during evolution and it plays a key role in the regulation of cell division. The encoded protein is a tyrosine phosphatase and belongs to the Cdc25 phosphatase family. It directs dephosphorylation of cyclin B-bound CDC2 and triggers entry into mitosis. It is also thought to suppress p53-induced growth arrest. Multiple alternatively spliced transcript variants of this gene have been described, however, the full-length nature of many of them is not known. [provided by RefSeq, Jul 2008]

UniProt Comments for CDC25C	CDC25C: a member of the MPI phosphatase family. Activates the cyclin dependent kinase CDC2 by removing two phosphate groups and it is required for entry into mitosis. Shuttles between the nucleus and the cytoplasm due to nuclear localization and nuclear export signals. The protein is nuclear in the M and G1 phases of the cell cycle and moves to the cytoplasm during S and G2. CDC25B has oncogenic properties, although its role in tumor formation has not been determined. At least four transcript variants for this gene exist. Three splice variant isoforms have been described. Protein type: Motility/polarity/chemotaxis; EC 3.1.3.48; Protein phosphatase, dual-specificity Chromosomal Location of Human Ortholog: 5q31 Cellular Component: nucleoplasm; perinuclear region of cytoplasm; nucleus; cytosol Molecular Function: protein binding; WW domain binding; protein tyrosine phosphatase activity; protein kinase binding Biological Process: cell proliferation; mitosis; viral reproduction; regulation of cell cycle; cell division; regulation of mitosis; spermatogenesis; regulation of cyclin-dependent protein kinase activity; mitotic cell cycle; DNA replication; G2/M transition of mitotic cell cycle
Research Articles on CDC25C	**1.** dose-dependent Cdc25c phosphatase acts as an early G2-phase checkpoint, thus indicating mechanistic importance in the low-dose hyper-radiosensitivity and induced radioresistance transition
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