CDC6 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Cdc6, Polyclonal Antibody
Full Product Name	Cdc6, NT (CDC6, CDC18L, Cell division control protein 6 homolog, CDC6-related protein, Cdc18-related protein, p62(cdc6)) (MaxLight 650)
Product Gene Name	anti-Cdc6 antibody
Product Synonym Names	CDC6; CDC18L; Cell division control protein 6 homolog; CDC6-related protein; Cdc18-related protein; p62(cdc6)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	62,720 Da
Chromosome Location	Chromosome: 17; NC_000017.10 (38444146..38459413). Location: 17q21.3
OMIM	602627
3D Structure	ModBase 3D Structure for Q99741
Immunogen	Cdc6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the N-terminal region of human Cdc6.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-Cdc6 antibody	Antibodies; Cell Division Cycle (CDC)
Applications Tested/Suitable for anti-Cdc6 antibody	Western Blot (WB), FLISA
Application Notes for anti-Cdc6 antibody	WB: 1:50-100 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-Cdc6 antibody	Human Cdc6 is highly similar to Saccharomyces cerevisiae Cdc6, a protein essential for the initiation of DNA replication. This protein functions as a regulator at the early steps of DNA replication. It localizes in cell nucleus during cell cyle G1, but translocates to the cytoplasm at the start of S phase. The subcellular translocation of this protein during cell cyle is regulated through its phosphorylation by Cdks. Transcription of this protein was reported to be regulated in response to mitogenic signals through transcriptional control mechanism involving E2F proteins.
Product References and Citations for anti-Cdc6 antibody	Alexandrow, M.G., et al., Mol. Cell. Biol. 24(4):1614-1627 (2004). Yim, H., et al., Mol. Biol. Cell 14(10):4250-4259 (2003). Clay-Farrace, L., et al., EMBO J. 22(3):704-712 (2003). Pelizon, C., et al., EMBO Rep. 3(8):780-784 (2002). Bermejo, R., et al., Mol. Biol. Cell 13(11):3989-4000 (2002).

Other Notes	Small volumes of anti-Cdc6 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.
Searchable Terms for Cdc6 purchase	MBS6283992 is an antibody targeting Cdc6. Also known as Cdc6, NT (CDC6, CDC18L, Cell division control protein 6 homolog, CDC6-related protein, Cdc18-related protein, p62(cdc6)) (MaxLight 650). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Cdc6. It may not necessarily be applicable to this product.

NCBI GI #	4502703
NCBI GeneID	990
NCBI Accession #	NP_001245.1
UniProt Primary Accession #	Q99741
UniProt Secondary Accession #	Q8TB30
UniProt Related Accession #	Q99741
GenBank Nucleotide #	NM_001254.3
NCBI Official Full Name	cell division control protein 6 homolog
NCBI Official Synonym Full Names	cell division cycle 6
NCBI Official Symbol	CDC6
NCBI Official Synonym Symbols	CDC18L; HsCDC6; HsCDC18
UniProt Protein Name	Cell division control protein 6 homolog
UniProt Synonym Protein Names	CDC6-related protein; Cdc18-related protein; HsCdc18; p62(cdc6)
Protein Family	Cell division control protein
UniProt Gene Name	CDC6
UniProt Synonym Gene Names	CDC18L; HsCdc18; HsCDC6
UniProt Entry Name	CDC6_HUMAN
NCBI Protein Information	cell division control protein 6 homolog; p62(cdc6); CDC6-related protein; cdc18-related protein; cell division cycle 6 homolog; CDC6 cell division cycle 6 homolog
NCBI Summary for Cdc6	The protein encoded by this gene is highly similar to Saccharomyces cerevisiae Cdc6, a protein essential for the initiation of DNA replication. This protein functions as a regulator at the early steps of DNA replication. It localizes in cell nucleus during cell cyle G1, but translocates to the cytoplasm at the start of S phase. The subcellular translocation of this protein during cell cyle is regulated through its phosphorylation by Cdks. Transcription of this protein was reported to be regulated in response to mitogenic signals through transcriptional control mechanism involving E2F proteins. [provided by RefSeq, Jul 2008]

UniProt Comments for Cdc6	CDC6: Involved in the initiation of DNA replication. Also participates in checkpoint controls that ensure DNA replication is completed before mitosis is initiated. Interacts with PCNA, ORC1L, cyclin-CDK and HUWE1. Belongs to the CDC6/cdc18 family. Protein type: Cell cycle regulation Chromosomal Location of Human Ortholog: 17q21.3 Cellular Component: nucleoplasm; Golgi apparatus; spindle pole; cytoplasm; spindle midzone; nucleus; cytosol Molecular Function: protein binding; nucleotide binding; chromatin binding; kinase binding; ATP binding Biological Process: positive regulation of cytokinesis; mitosis; traversing start control point of mitotic cell cycle; regulation of mitotic metaphase/anaphase transition; positive regulation of chromosome segregation; G1/S-specific transcription in mitotic cell cycle; negative regulation of cell proliferation; cell division; negative regulation of DNA replication; regulation of cyclin-dependent protein kinase activity; mitotic cell cycle; DNA replication checkpoint; DNA replication; G1/S transition of mitotic cell cycle Disease: Meier-gorlin Syndrome 5
Research Articles on Cdc6	**1.** the up-regulation of CDK2 by CUL4B is achieved via the repression of miR-372 and miR-373, which target CDK2.
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