

Anti-Cdc6 Antibody

Catalog # ABO11509

Product Information

Application	WB
Primary Accession	Q99741
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Cell division control protein 6 homolog(CDC6) detection. Tested with WB in Human.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	990
Other Names	Cell division control protein 6 homolog, CDC6-related protein, Cdc18-related protein, HsCdc18, p62(cdc6), HsCDC6, CDC6, CDC18L
Calculated MW	62720
Application Details	Western blot, 0.1-0.5 µg/ml, Human
Subcellular Localization	Nucleus . Cytoplasm . The protein is nuclear in G1 and cytoplasmic in S-phase cells.
Source	Eukaryota
Protein Name	Cell division control protein 6 homolog
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Cdc6(484-503aa KLYEAYSKVCRKQQVAAVDQ).
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the CDC6/cdc18 family.

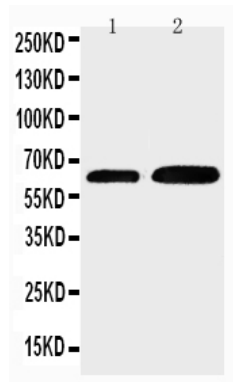
Protein Information

Name	CDC6
Synonyms	CDC18L
Function	Involved in the initiation of DNA replication. Also participates in checkpoint controls that ensure DNA replication is completed before mitosis is initiated.
Cellular Location	Nucleus. Cytoplasm Note=The protein is nuclear in G1 and cytoplasmic in S-phase cells (PubMed:9566895).

Background

Cell division control protein 6 homolog, also called CDC18L or CDC6, is a protein that in humans is encoded by the CDC6 gene. By analysis of somatic cell hybrids and by fluorescence in situ hybridization, this gene is mapped to 17q21.2. 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 cycle G1, but translocates to the cytoplasm at the start of S phase. The subcellular translocation of this protein during cell cycle 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. This gene is involved in the initiation of DNA replication.

Images



Anti-Cdc6 antibody, ABO11509, Western blotting
Lane 1: JURKAT Cell Lysate
Lane 2: MCF-7 Cell Lysate

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