

Rabbit Anti-phospho-Cdc6 (Ser54)/Biotin Conjugated antibody

SL5246R-Bio

Product Name	Anti-phospho-Cdc6 (Ser54)/Biotin
Chinese Name	生物素标记的磷酸化细胞分裂周期蛋白 6 抗体
Alias	Cell Division Cycle protein 6; Cdc 18L; Cdc 6; CDC18 (cell division cycle 18, S.pombe, homolog) like; CDC18 (S.pombe); CDC18 like; CDC18(S.pombe); Cdc18L; CDC6 related protein; Cdc6p; Cell cycle controller; Cell division control protein 6; Cell division control protein 6 homolog; Cell division cycle 18; Cell division cycle 18 homolog; Cell division cycle 6 homolog; Cell division cycle 6 protein; HsCDC 18; HsCDC 6; HsCDC18; HsCDC6; p62; p62(cdc 6); p62(cdc6); CDC6_HUMAN.
Product Type	Phosphorylated anti
Research Area	Cell biology Chromatin and nuclear signals Cyclin transcriptional regulatory factor Cell differentiation
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human(predicted:Mouse,Rat,Dog,Pig,Horse,Rabbit,Sheep)
Applications	ICC/IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	63kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated Synthesised phosphopeptide derived from human Cdc6 around the phosphorylation site of Ser54 [PL(p-S)PR]
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH

7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

background:

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.

Function:

Involved in the initiation of DNA replication. Also participates in checkpoint controls that ensure DNA replication is completed before mitosis is initiated.

Subunit:

Interacts with PCNA, ORC1L, cyclin-CDK and HUWE1.

Subcellular Location:

Nucleus. Cytoplasm. Note=The protein is nuclear in G1 and cytoplasmic in S-phase cells.

Product Detail

DISEASE:

Defects in CDC6 are the cause of Meier-Gorlin syndrome type 5 (MGORS5) [MIM:613805]. MGORS5 is a syndrome characterized by bilateral microtia, aplasia/hypoplasia of the patellae, and severe intrauterine and postnatal growth retardation with short stature and poor weight gain. Additional clinical findings include anomalies of cranial sutures, microcephaly, apparently low-set and simple ears, microstomia, full lips, highly arched or cleft palate, micrognathia, genitourinary tract anomalies, and various skeletal anomalies. While almost all cases have primordial dwarfism with substantial prenatal and postnatal growth retardation, not all cases have microcephaly, and microtia and absent/hypoplastic patella are absent in some. Despite the presence of microcephaly, intellect is usually normal.

Similarity:

Belongs to the CDC6/cdc18 family.

Database links:

UniProtKB/Swiss-Prot: Q99741.1

Important Note:

This product as supplied is intended for research use only, not for use in



human, therapeutic or diagnostic applications.

细胞分裂周期蛋白 6 也是细胞周期调节蛋白，是真核生物 DNA 复制的主要调控因子,参与构成 DNA 前复制复合物。