

Phospho-CDC6(S54) Antibody

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP3058a

Product Information

| | |
|--------------------------|------------------------|
| Application | WB, IHC-P, E |
| Primary Accession | Q99741 |
| Reactivity | Human |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | Rabbit IgG |
| Clone Names | RB7524 |
| Calculated MW | 62720 |

Additional Information

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|---------------------------|--|
| Gene ID | 990 |
| Other Names | Cell division control protein 6 homolog, CDC6-related protein, Cdc18-related protein, HsCdc18, p62(cdc6), HsCDC6, CDC6, CDC18L |
| Target/Specificity | This CDC6 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S54 of human CDC6. |
| Dilution | WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration. |
| Format | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| Storage | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| Precautions | Phospho-CDC6(S54) Antibody is for research use only and not for use in diagnostic or therapeutic procedures. |

Protein Information

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|-----------------|---|
| 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

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 Cdk. Transcription of this protein was reported to be regulated in response to mitogenic signals through transcriptional control mechanism involving E2F proteins.

References

Alexandrow, M.G., et al., Mol. Cell. Biol. 24(4):1614-1627 (2004).

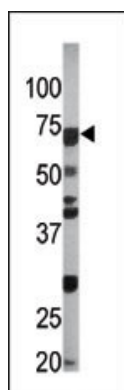
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Clay-Farrace, L., et al., EMBO J. 22(3):704-712 (2003).

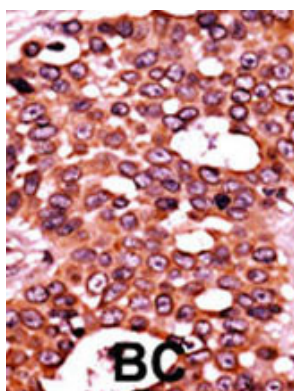
Pelizon, C., et al., EMBO Rep. 3(8):780-784 (2002).

Bermejo, R., et al., Mol. Biol. Cell 13(11):3989-4000 (2002).

Images



The anti-Phospho-CDC6-S54 Pab (Cat. #AP3058a) is used in Western blot to detect Phospho-CDC6-S54 in Ramos tissue lysate



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

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