

For Research Use Only

CDC6 Polyclonal antibody

Catalog Number: 11640-1-AP

Featured Product

11 Publications



Basic Information

Catalog Number:

11640-1-AP

Size:

150UL, Concentration: 253 µg/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG2228

GenBank Accession Number:

BC025232

GeneID (NCBI):

990

Full Name:

cell division cycle 6 homolog (S. cerevisiae)

Calculated MW:

560 aa, 63 kDa

Observed MW:

63 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:50-1:500

IF 1:20-1:200

Applications

Tested Applications:

IF, IHC, WB, ELISA

Cited Applications:

IF, IHC, WB

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: HeLa cells, Jurkat cells, SMMC-7721 cells

IHC: mouse brain tissue, human colon cancer tissue, human colon tissue

IF: HepG2 cells,

Background Information

CDC6, also named as CDC18L and HsCDC18, belongs to the CDC6/cdc18 family. It is involved in the initiation of DNA replication and functions as a regulator at the early steps of DNA replication. The active Cdc6 functioning as a dimer at replication origins (10793143,15096526). It also participates in checkpoint controls that ensure DNA replication is completed before mitosis is initiated. 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 Cdk5. Defects in CDC6 are the cause of Meier-Gorlin syndrome type 5 (MGORS5). 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. This antibody is a rabbit polyclonal antibody raised against residues near the C terminus of human CDC6.

Notable Publications

Author	Pubmed ID	Journal	Application
Hao Yang	27708221	Oncotarget	WB
Gang Xiong	32982311	Onco Targets Ther	WB
Hongfa Xu	33173413	Int J Med Sci	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.1% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

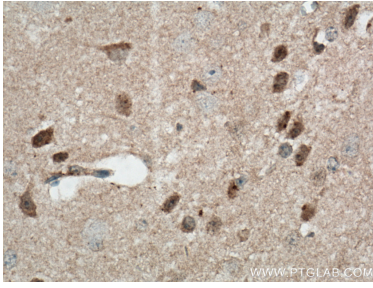
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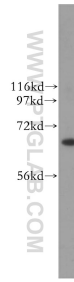
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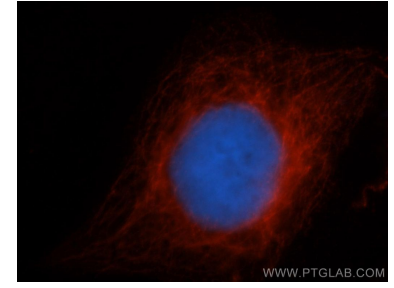
Selected Validation Data



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 11640-1-AP (CDC6 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



HeLa cells were subjected to SDS PAGE followed by western blot with 11640-1-AP (CDC6 antibody) at dilution of 1:400 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of HepG2 cells, using CDC6 antibody 11640-1-AP at 1:50 and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).