

Product Name: KD-Validated CDC40 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01599**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 65.5kDa

Antigen Information

Gene Name	CDC40
Alternative Names	CDC40; Cell Division Cycle 40; PRPF17; PRP17; EHB3; Cell Division Cycle 40 Homolog; Pre-MRNA-Processing Factor 17; EH-Binding Protein 3; PRP17 Homolog; FLJ10564; HPRP17; Cell Division Cycle 40 Homolog (S. Cerevisiae); Cell Division Cycle 40 Homolog (Yeast); Pre-mRNA Splicing Factor 17; PCH15; Ehb3
Gene ID	51362.0
SwissProt ID	O60508
Immunogen	A synthesized peptide derived from human CDC40

Background

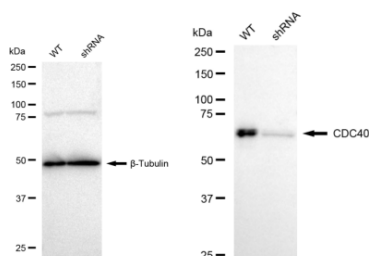
Pre-mRNA splicing occurs in two sequential transesterification steps. The protein encoded by this gene is found to be essential

for the catalytic step II in pre-mRNA splicing process. It is found in the spliceosome, and contains seven WD repeats, which function in protein-protein interactions. This protein has a sequence similarity to yeast Prp17 protein, which functions in two different cellular processes: pre-mRNA splicing and cell cycle progression. It suggests that this protein may play a role in cell cycle progression. [provided by RefSeq, Jul 2008]

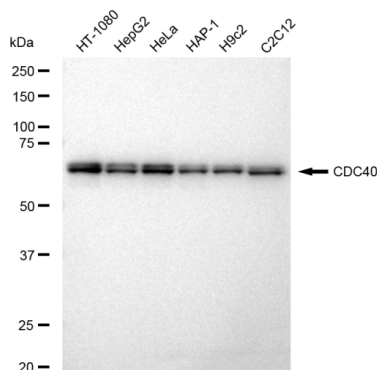
Research Area

Epigenetics and Nuclear Signaling, Cell Biology, Cancer

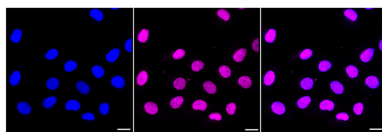
Image Data



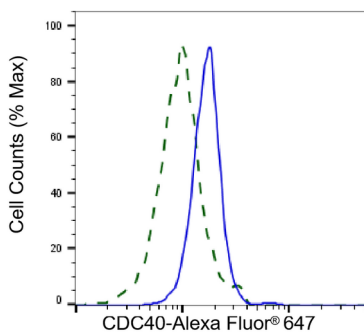
Western blotting analysis using CDC40 antibody (KVA01599). CDC40 expression in wild type (WT) and CDC40 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with CDC40 antibody (KVA01599, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



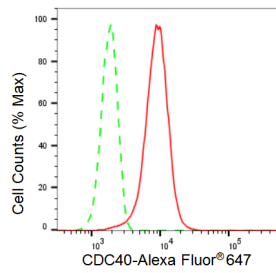
Western blotting analysis using CDC40 antibody (KVA01599). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with CDC40 antibody (KVA01599, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HT-1080 cells with CDC40 antibody (KVA01599, 1:1,000). Nuclei were stained blue with DAPI; CDC40 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Validation of CDC40 knockdown using flow cytometry. Wild-type (WT, Blue) and knockdown (KD, Green) HeLa cells were stained with CDC40 antibody (KVA01599, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of CDC40 expression in HT-1080 cells using CDC40 antibody (KVAAb01599, 1:2,000). Green, isotype control; red, CDC40.