
Product Name: KD-Validated Cell Division Cycle 45 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01407**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM
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
Molecular Weight	Calculated MW: 65.6kDa

Antigen Information

Gene Name	CDC45 CDC45; Cell Division Cycle 45; CDC45L2; CDC45L; Cell Division Control Protein 45 Homolog; Human CDC45; PORC-PI-1; CDC45 (Cell Division Cycle 45, S.Cerevisiae, Homolog)-Like;
Alternative Names	CDC45 Cell Division Cycle 45-Like (S. Cerevisiae); Cell Division Cycle 45 Homolog (S. Cerevisiae); CDC45 Cell Division Cycle 45 Homolog; CDC45 Cell Division Cycle 45-Like; Cell Division Cycle 45 Homolog; Cell Division Cycle 45-Like 2; CDC45-Related Protein; MGORS7
Gene ID	8318.0
SwissProt ID	O75419
Immunogen	A synthesized peptide derived from human CDC45

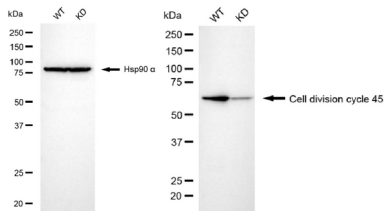
Background

The protein encoded by this gene was identified by its strong similarity with *Saccharomyces cerevisiae* Cdc45, an essential protein required to the initiation of DNA replication. Cdc45 is a member of the highly conserved multiprotein complex including Cdc6/Cdc18, the minichromosome maintenance proteins (MCMs) and DNA polymerase, which is important for early steps of DNA replication in eukaryotes. This protein has been shown to interact with MCM7 and DNA polymerase alpha. Studies of the similar gene in *Xenopus* suggested that this protein play a pivotal role in the loading of DNA polymerase alpha onto chromatin. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]

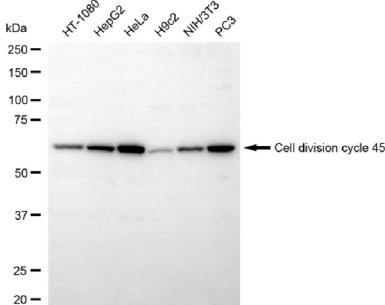
Research Area

Epigenetics and Nuclear Signaling, Cell Biology

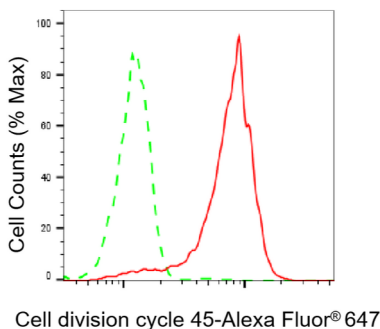
Image Data



Western blotting analysis using cell division cycle 45 antibody (KVA01407). Cell division cycle 45 expression in wild type (WT) and cell division cycle 45 (CDC45) knockdown (KD) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with cell division cycle 45 antibody (KVA01407, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using cell division cycle 45 antibody (KVA01407). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with cell division cycle 45 antibody (KVA01407, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Flow cytometric analysis of Cell division cycle 45 expression in HepG2 cells using Cell division cycle 45 antibody (KVA01407, 1:2,000). Green, isotype control; red, Cell division cycle 45.