

Product Name: KD-Validated CDT1 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01060**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
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: 60.4kDa

Antigen Information

Gene Name	CDT1
Alternative Names	CDT1; Chromatin Licensing And DNA Replication Factor 1; DUP; RIS2; DNA Replication Factor Cdt1; Double Parked, Drosophila, Homolog Of; Double Parked Homolog
Gene ID	81620.0
SwissProt ID	Q9H211
Immunogen	A synthesized peptide derived from human CDT1

Background

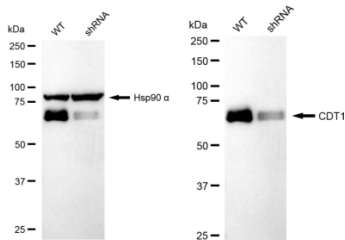
The protein encoded by this gene is involved in the formation of the pre-replication complex that is necessary for DNA replication. The encoded protein can bind geminin, which prevents replication and may function to prevent this protein from initiating replication at inappropriate origins. Phosphorylation of this protein by cyclin A-dependent kinases results in

degradation of the protein. [provided by RefSeq, Mar 2011]

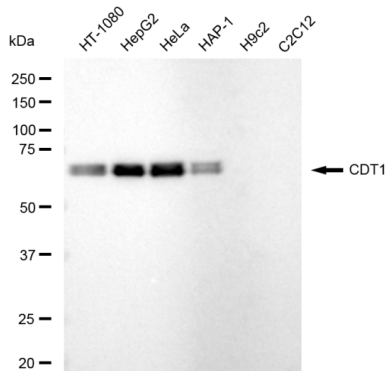
Research Area

Epigenetics and Nuclear Signaling

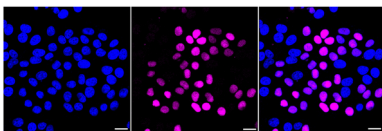
Image Data



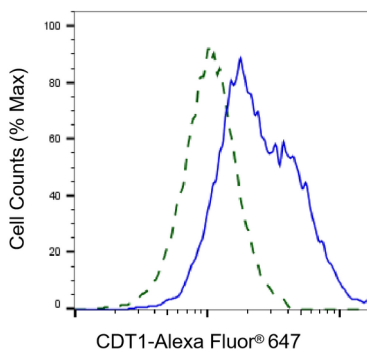
Western blotting analysis using CDT1 antibody (KVA01060). CDT1 expression in wild type (WT) and CDT1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with CDT1 antibody (KVA01060, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



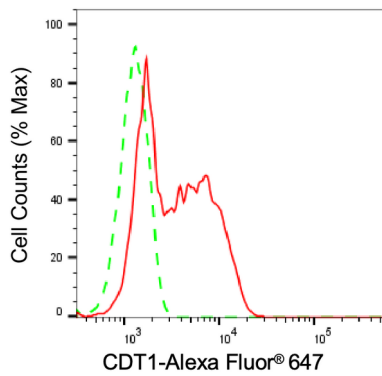
Western blotting analysis using CDT1 antibody (KVA01060). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with CDT1 antibody (KVA01060, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with CDT1 antibody (KVA01060, 1:1,000). Nuclei were stained blue with DAPI; CDT1 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 CDT1 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with CDT1 antibody (KVA01060, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of CDT1 expression in HepG2 cells using CDT1 antibody (KVA01060, 1:2,000). Green, isotype control; red, CDT1.