Product Name: **KD-Validated Cyclin E2 Recombinant Rabbit Monoclonal Antibody**
Catalog #: **KVAb00747**
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: 46.8kDa

Antigen Information

Gene Name	CCNE2
Alternative Names	CCNE2; Cyclin E2; CYCE2; G1/S-Specific Cyclin-E2
Gene ID	9134.0
SwissProt ID	O96020
Immunogen	A synthesized peptide derived from human Cyclin E2

Background

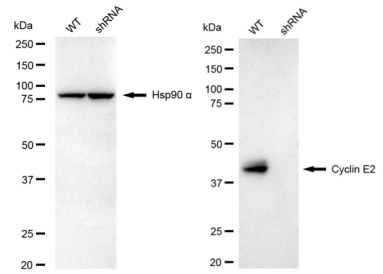
The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. This cyclin forms a complex with and functions as a regulatory subunit of CDK2. This cyclin has been shown to specifically interact

with CIP/KIP family of CDK inhibitors, and plays a role in cell cycle G1/S transition. The expression of this gene peaks at the G1-S phase and exhibits a pattern of tissue specificity distinct from that of cyclin E1. A significantly increased expression level of this gene was observed in tumor-derived cells. [provided by RefSeq, Jul 2008]

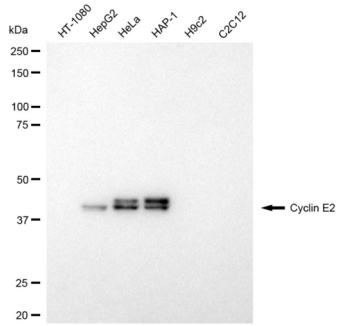
Research Area

Cell Biology,Epigenetics and Nuclear Signaling,Cancer

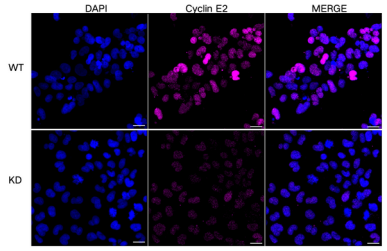
Image Data



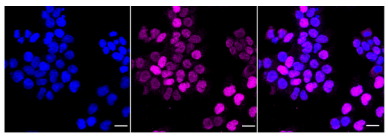
Western blotting analysis using cyclin E2 antibody (KVAb00747). Cyclin E2 expression in wild-type (WT) and cyclin E2 (CCNE2) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with cyclin E2 antibody (KVAb00747, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



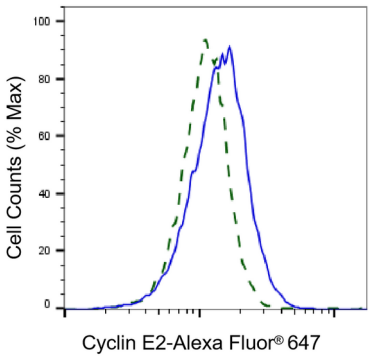
Western blotting analysis using cyclin E2 antibody (KVAb00747). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with cyclin E2 antibody (KVAb00747, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells using Cyclin E2 antibody (KVAb00747, 1:1,000), Top panel: wild-type (WT); Bottom panal: Cyclin E2 shRNA knockdown (KD). Nuclei were stained blue with DAPI; Cyclin E2 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Immunocytochemical staining of Hela cells with cyclin E2 antibody (KVAb00747, 1:1,000). Nuclei were stained blue with DAPI; Cyclin E2 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 Cyclin E2 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Cyclin E2 antibody (KVAb00747, 1:2,000) and analyzed using BD flow cytometer.