
Product Name: KD-Validated Cyclin A2 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA00263

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
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; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 48.6kDa

Antigen Information

Gene Name	CCNA2
Alternative Names	CCNA2; Cyclin A2; CCN1; CCNA; Cyclin-A2; Cyclin-A; Cyclin A
Gene ID	890.0
SwissProt ID	P20248
Immunogen	A synthesized peptide derived from human Cyclin A2

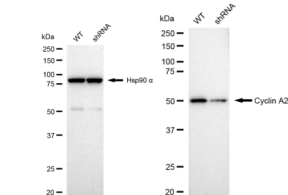
Background

The protein encoded by this gene belongs to the highly conserved cyclin family, whose members function as regulators of the cell cycle. This protein binds and activates cyclin-dependent kinase 2 and thus promotes transition through G1/S and G2/M. [provided by RefSeq, Aug 2016]

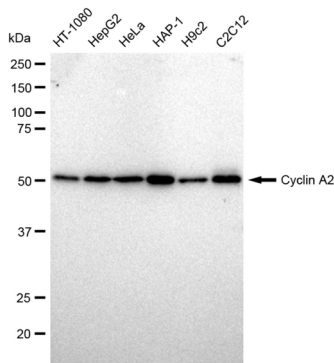
Research Area

Cell Biology, Epigenetics and Nuclear Signaling, Cancer, Cardiovascular

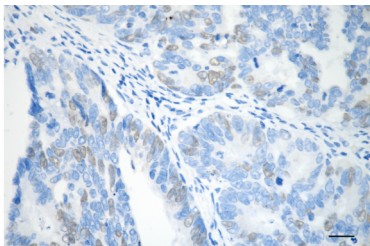
Image Data



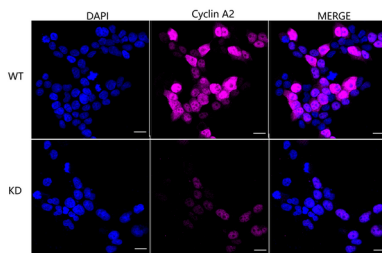
Western blotting analysis using Cyclin A2 antibody (KVA00263). Cyclin A2 expression in wild type (WT) and Cyclin A2 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Cyclin A2 antibody (KVA00263, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



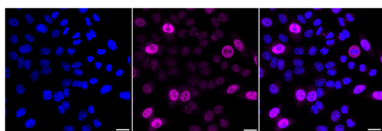
Western blotting analysis using Cyclin A2 antibody (KVA00263). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Cyclin A2 antibody (KVA00263, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



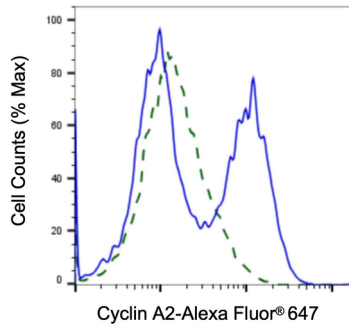
Immunohistochemistry was performed on paraffin-embedded human sigmoid colon carcinoma using cyclin A2 antibody (KVA00263, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



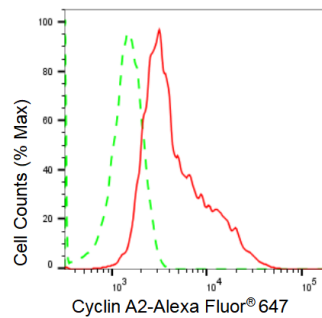
Immunocytochemical staining of HeLa cells using Cyclin A2 antibody (KVA00263, 1:1,000). Top panel: wild-type (WT); Bottom panel: Cyclin A2 shRNA knockdown (KD). Nuclei were stained blue with DAPI; Cyclin A2 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.



Immunocytochemical staining of HepG2 cells with Cyclin A2 antibody (KVA00263, 1:1,000). Nuclei were stained blue with DAPI; Cyclin A2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20 µm.



Validation of cyclin A2 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with cyclin A2 antibody (KVA00263, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Cyclin A2 expression in HepG2 cells using Cyclin A2 antibody (KVA00263, 1:2,000). Green, isotype control; red, Cyclin A2.