Product Name: **KD-Validated Phospho-CDC37 (S13) Recombinant Rabbit Monoclonal Antibody**

Catalog #: **KVAb01391**

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: 44.5kDa

Antigen Information

Gene Name	CDC37
Alternative Names	CDC37; Cell Division Cycle 37, HSP90 Cochaperone; Hsp90 Co-Chaperone Cdc37; P50CDC37; CDC37 (Cell Division Cycle 37, S. Cerevisiae, Homolog); Hsp90 Chaperone Protein Kinase-Targeting Subunit; CDC37 Cell Division Cycle 37 Homolog; CDC37 Cell Division Cycle 37 Homolog (S. Cerevisiae); Cell Division Cycle 37 Homolog (S. Cerevisiae); Cell Division Cycle 37 Homolog; P50Cdc37; CDC37A
Gene ID	11140.0
SwissProt ID	Q16543
Immunogen	A synthesized peptide derived from human Phospho-CDC37 (S13)

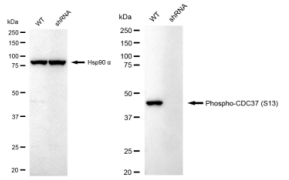
Background

The protein encoded by this gene is highly similar to Cdc 37, a cell division cycle control protein of Sacchromyces cerevisiae. This protein is a molecular chaperone with specific function in cell signal transduction. It has been shown to form complex with Hsp90 and a variety of protein kinases including CDK4, CDK6, SRC, RAF-1, MOK, as well as eIF2 alpha kinases. It is thought to play a critical role in directing Hsp90 to its target kinases. [provided by RefSeq, Jul 2008]

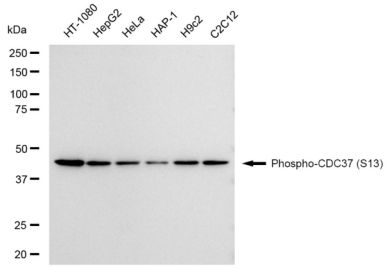
Research Area

Cell Biology,Epigenetics and Nuclear Signaling

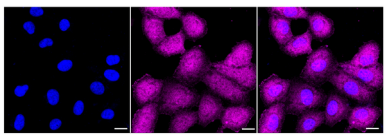
Image Data



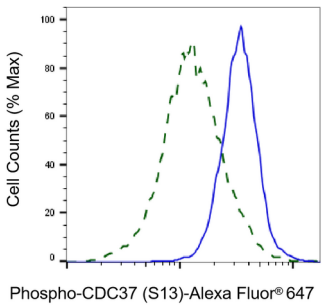
Western blotting analysis using Phospho-CDC37 (S13) antibody (KVAb01391). Phospho-CDC37 (S13) expression in wild type (WT) and Phospho-CDC37 (S13) shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Phospho-CDC37 (S13) antibody (KVAb01391, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



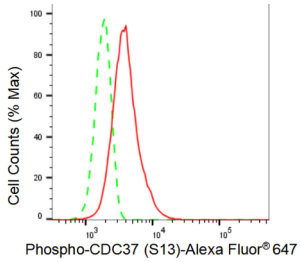
Western blotting analysis using Phospho-CDC37 (S13) antibody (KVAb01391). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Phospho-CDC37 (S13) antibody (KVAb01391, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HT-1080 cells with Phospho-CDC37 (S13) antibody (KVAb01391, 1:1,000). Nuclei were stained blue with DAPI; Phospho-CDC37 (S13) 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 CDC37 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Phospho-CDC37 (S13) antibody (KVAb01391, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Phospho-CDC37 (S13) expression in HT-1080 cells using Phospho-CDC37 (S13) antibody (KVAb01391, 1:2,000). Green, isotype control; red, Phospho-CDC37 (S13).