

Product Name: KD-Validated Chromodomain Helicase DNA Binding 4 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA01653

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: 218.0kDa

Antigen Information

Gene Name	CHD4 CHD3; Chromodomain Helicase DNA Binding Protein 4; Chromodomain-Helicase-DNA-
Alternative Names	Binding Protein 4; Mi-2 Autoantigen 218 KDa Protein; ATP-Dependent Helicase CHD4; Mi2-BETA; Mi-2b; CHD-4; EC 3.6.4.12; MI2-BETA; Mi2-Beta; EC 3.6.1; SIHIWES; MI-2B
Gene ID	1108.0
SwissProt ID	Q14839
Immunogen	A synthesized peptide derived from human CHD4

Background

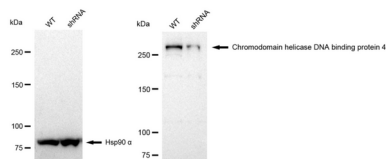
The product of this gene belongs to the SNF2/RAD54 helicase family. It represents the main component of the nucleosome

remodeling and deacetylase complex and plays an important role in epigenetic transcriptional repression. Patients with dermatomyositis develop antibodies against this protein. Somatic mutations in this gene are associated with serous endometrial tumors. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2014]

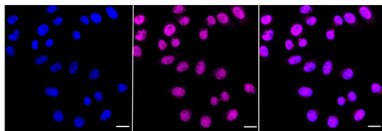
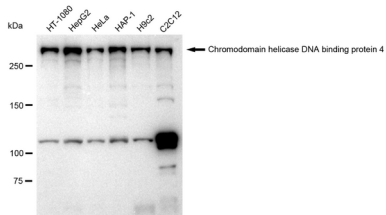
Research Area

Immunology, Epigenetics and Nuclear Signaling

Image Data



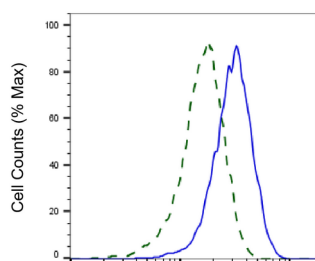
Western blotting analysis using



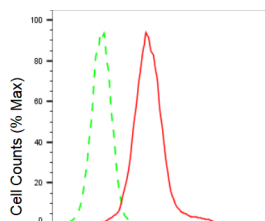
Chromodomain helicase DNA binding protein 4 antibody (KvAb01653). Chromodomain helicase DNA binding protein 4 expression in wild type (WT) and Chromodomain helicase DNA binding protein 4 shRNA knockdown (KD) HeLa cells with 30 μg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Chromodomain helicase DNA binding protein 4 antibody (KvAb01653, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.

Western blotting analysis using Chromodomain helicase DNA binding protein 4 antibody (KvAb01653). Total cell lysates (30 μg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Chromodomain helicase DNA binding protein 4 antibody (KvAb01653, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.

Immunocytochemical staining of HepG2 cells with Chromodomain helicase DNA binding protein 4 antibody (KvAb01653, 1:1,000). Nuclei were stained blue with DAPI; Chromodomain helicase DNA binding protein 4 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.



Chromodomain helicase DNA binding protein 4-Alexa Fluor® 647



Chromodomain helicase DNA binding protein 4-Alexa Fluor® 647

Validation of Chromodomain helicase DNA binding protein 4 knockdown using flow cytometry. Wild-type (WT, Blue) and knockdown (KD, Green) HeLa cells were stained with Chromodomain helicase DNA binding protein 4 antibody (KvAb01653, 1:2,000) and analyzed using BD flow cytometer.

Flow cytometric analysis of Chromodomain helicase DNA binding protein 4 expression in HepG2 cells using Chromodomain helicase DNA binding protein 4 antibody (KvAb01653, 1:2,000). Green, isotype control; red, Chromodomain helicase DNA binding protein 4.