

KD-Validated Anti-Chromodomain helicase DNA binding 4 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1145**Specification****KD-Validated Anti-Chromodomain helicase DNA binding 4 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	Q14839
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 218 kDa , observed, 260 kDa KDa
Gene Name	CHD4
Aliases	CHD3; Chromodomain Helicase DNA Binding Protein 4; Chromodomain-Helicase-DNA-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
Immunogen	A synthesized peptide derived from human CHD4

KD-Validated Anti-Chromodomain helicase DNA binding 4 Rabbit Monoclonal Antibody - Additional Information

Gene ID	1108
Other Names	
Chromodomain-helicase-DNA-binding protein 4, CHD-4, 3.6.4.12, ATP-dependent helicase CHD4, Mi-2 autoantigen 218 kDa protein, Mi2-beta, CHD4	

KD-Validated Anti-Chromodomain helicase DNA binding 4 Rabbit Monoclonal Antibody - Protein Information**Name** CHD4**Function**

ATP-dependent chromatin-remodeling factor that binds and distorts nucleosomal DNA (PubMed:28977666, PubMed:32543371). Acts as a component of the histone deacetylase NuRD complex which participates in the remodeling of chromatin (PubMed:16428440, PubMed:17626165, PubMed:28977666, PubMed:9804427)

target="_blank">9804427). Localizes to acetylated damaged chromatin in a ZMYND8-dependent manner, to promote transcriptional repression and double-strand break repair by homologous recombination (PubMed:25593309). Involved in neurogenesis (By similarity).

Cellular Location

Nucleus. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Note=Associates with centrosomes in interphase (By similarity). Localizes to sites of DNA damage in a manner dependent on ZMYND8 and ZNF687 (PubMed:27732854, PubMed:28977666). {ECO:0000250|UniProtKB:Q6PDQ2, ECO:0000269|PubMed:27732854, ECO:0000269|PubMed:28977666}

Tissue Location

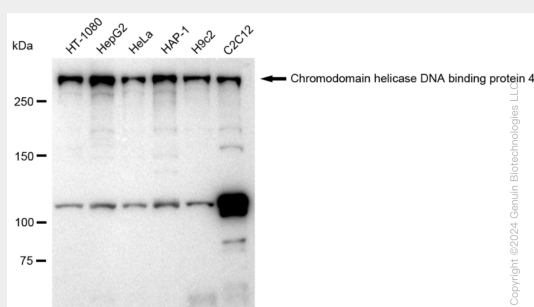
Widely expressed..

KD-Validated Anti-Chromodomain helicase DNA binding 4 Rabbit Monoclonal Antibody - Protocols

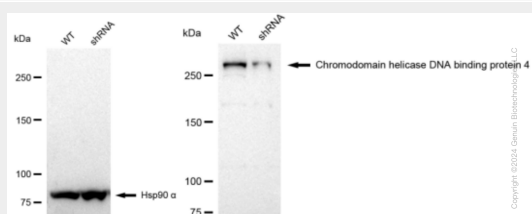
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

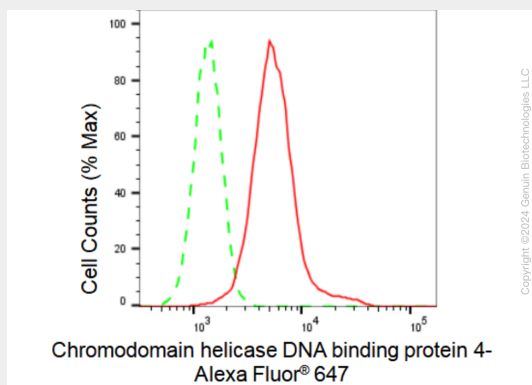
KD-Validated Anti-Chromodomain helicase DNA binding 4 Rabbit Monoclonal Antibody - Images



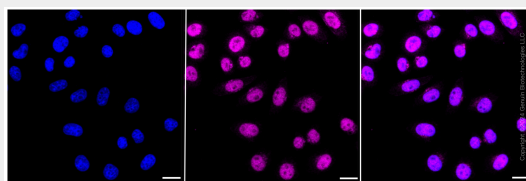
Western blotting analysis using anti-Chromodomain helicase DNA binding protein 4 antibody (Cat#AGI1145). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Chromodomain helicase DNA binding protein 4 antibody (Cat#AGI1145, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-Chromodomain helicase DNA binding protein 4 antibody (Cat#AGI1145). 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 anti-Chromodomain helicase DNA binding protein 4 antibody (Cat#AGI1145, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Chromodomain helicase DNA binding protein 4 expression in HepG2 cells using Chromodomain helicase DNA binding protein 4 antibody (Cat#AGI1145, 1:2,000). Green, isotype control; red, Chromodomain helicase DNA binding protein 4.



Immunocytochemical staining of HepG2 cells with Chromodomain helicase DNA binding protein 4 antibody (Cat#AGI1145, 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.