

Anti-CHD4 Antibody

Rabbit Polyclonal Antibody

Catalog # ABV11860

Product Information

Application	WB, IHC, IF, ICC
Primary Accession	Q14839
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	218005

Additional Information

Gene ID	1108
Positive Control	WB: HEK293, NIH3T3, H9C2; IHC: human liver cancer tissue; IFC: HEK293 cells
Application & Usage	WB; 1:500 – 1:2000, IHC; 1:50 – 1:200, IF/IC; 1:50 – 1:100
Alias Symbol	CHD4
Other Names	Chromodomain-helicase-DNA-binding protein 4, CHD-4, ATP-dependent helicase CHD4, Mi-2 autoantigen 218 kDa protein, Mi2-beta
Appearance	Colorless liquid
Formulation	In 0.42% Potassium phosphate; 0.87% Sodium chloride; pH 7.3; 30% glycerol and 0.01% sodium azide
Reconstitution & Storage	-20 °C
Background Descriptions	
Precautions	Anti-CHD4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

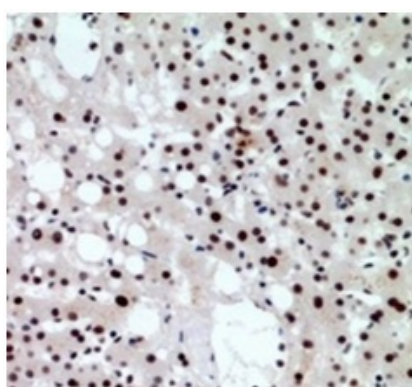
Name	CHD4
Function	ATP-dependent chromatin-remodeling factor that binds and distorts nucleosomal DNA (PubMed: 28977666 , PubMed: 32543371). Acts as a component of the histone deacetylase NuRD complex which participates in the remodeling of chromatin (PubMed: 16428440 , PubMed: 17626165 , PubMed: 28977666 , PubMed: 9804427). 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..

Background

Component of the histone deacetylase NuRD complex which participates in the remodeling of chromatin by deacetylating histones.

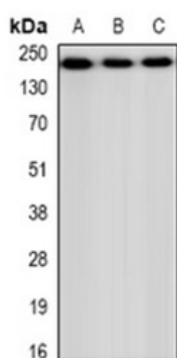
Images



Immunohistochemical analysis of CHD4 staining in H.liver cancer formalin fixed paraffin embedded tissue section.



Immunofluorescent analysis of CHD4 staining in HEK293 cells.



Western blot analysis of CHD4 expression in HEK293(A); NIH/3T3(B); H9C2(C) whole cell lysates.