

CHD4 Polyclonal Antibody

Catalog number: 14173-1-AP

Size: 29 µg/150 µl

Source: Rabbit

Isotype: IgG

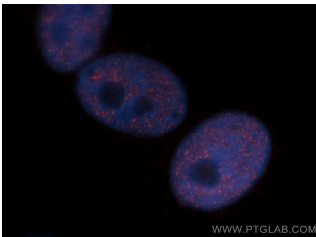
Synonyms:

CHD4; ATP dependent helicase

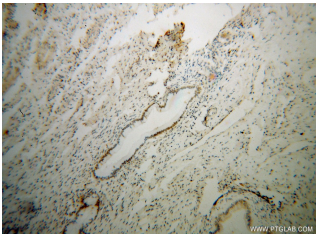
CHD4, CHD 4, CHD4,

DKFZp686E06161, Mi 2b, Mi2

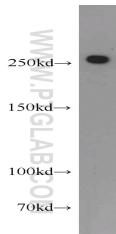
BETA



Immunofluorescent analysis of A549 cells, using CHD4 antibody 14173-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



Immunohistochemical of paraffin-embedded human cervical cancer using 14173-1-AP (CHD4 antibody) at dilution of 1:100 (under 10x lens)



HeLa cells were subjected to SDS PAGE followed by western blot with 14173-1-AP (CHD4 antibody) at dilution of 1:500

Background

Chromodomain helicase DNA-binding protein 4 (CHD4) is an ATP dependent chromatin remodeler and a major subunit of the repressive NuRD complex [PMID:9790534]. This complex plays key roles in transcriptional regulation and reorganization and maintenance of chromatin structure, as it targets pericentromeric heterochromatin and has recently been implicated in DNA damage repair, being rapidly recruited to DNA double strand breaks [PMID:17694084]. CHD4 is a novel BRIT1 binding partner that regulates the HR repair process, which is a critical pathway of repairing DNA double strand breaks and plays an essential role in maintaining genomic integrity [PMID:22219182].

Applications

Tested applications:	ELISA, WB, IF, IHC
Species specificity:	Human, Mouse, Rat; other species not tested.
Calculated CHD4 MW:	1937aa, 221 kDa
Observed CHD4 MW:	260 kDa
Positive WB detected in	HeLa cells, HEK-293 cells
Positive IHC detected in	Human cervical cancer tissue
Positive IF detected in	A549 cells
Recommended dilution:	WB: 1:200-1:2000
	IHC: 1:20-1:200
	IF: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag5372
GenBank accession number:	BC038596
Gene ID (NCBI):	1108
Full name:	Chromodomain helicase DNA binding protein 4

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.