

For Research Use Only

CHD4 Monoclonal antibody

Catalog Number: 66222-1-Ig

Featured Product

1 Publications



Basic Information

Catalog Number: 66222-1-Ig	GenBank Accession Number: BC038596	Purification Method: Protein G purification
Size: 150ul, Concentration: 1300 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 1108	CloneNo.: 3D9G2
Source: Mouse	UNIPROT ID: Q14839	Recommended Dilutions: WB 1:500-1:2000 IHC 1:50-1:500 IF 1:50-1:500
Isotype: IgG1	Full Name: chromodomain helicase DNA binding protein 4	
Immunogen Catalog Number: AG5729	Calculated MW: 1937 aa, 221 kDa	
	Observed MW: 260 kDa	

Applications

Tested Applications:

IF, IHC, WB, ELISA

Species Specificity:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : MCF-7 cells, HEK-293 cells

IHC : human cervical cancer tissue,

IF : HEK-293 cells,

Background Information

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]. The calculated molecular weight of CHD4 is 218 kDa, but modified CHD4 is about 250-280 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Wenxiu Dai	38272027	Dev Cell	

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

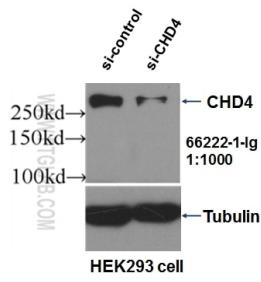
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

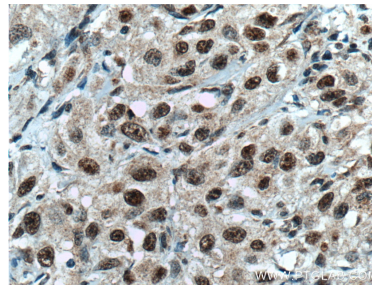
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



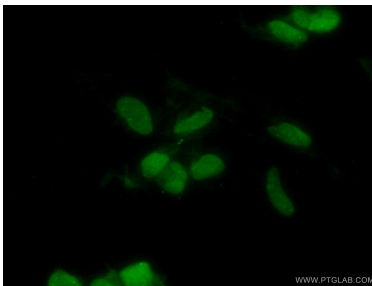
WB result of CHD4 antibody (66222-1-Ig, 1:1000) with si-Control and si-CHD4 transfected HEK293 cells.



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 66222-1-Ig (CHD4 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



MCF-7 cells were subjected to SDS PAGE followed by western blot with 66222-1-Ig (CHD4 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (10% Formaldehyde) fixed HEK-293 cells using 66222-1-Ig(CHD4 antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).