10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CHD4 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant CHD4.
Catalog # AT1514a

Product Information

Application	WB, IHC, E
Primary Accession	Q14839
Other Accession	NM_001273
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	4H4
Calculated MW	218005

Additional Information

Gene ID	1108
Other Names	Chromodomain-helicase-DNA-binding protein 4, CHD-4, ATP-dependent helicase CHD4, Mi-2 autoantigen 218 kDa protein, Mi2-beta, CHD4
Target/Specificity	CHD4 (NP_001264, 1632 a.a. ~ 1730 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	CHD4 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

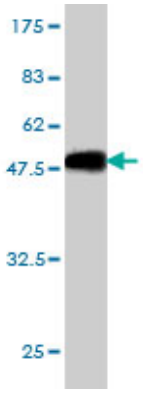
The product of this gene belongs to the SNF2/RAD54 helicase family. It represents the main component of the nucleosome remodeling and deacetylase complex and plays an important role in epigenetic transcriptional repression. Patients with dermatomyositis develop antibodies against this protein.

References

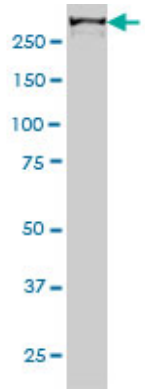
ZIP: a novel transcription repressor, represses EGFR oncogene and suppresses breast carcinogenesis. Li R, et al. EMBO J, 2009 Sep 16. PMID 19644445.Binding of the CHD4 PHD2 finger to histone H3 is modulated by covalent modifications. Musselman CA, et al. Biochem J, 2009 Sep 25. PMID 19624289.Defining the human

deubiquitinating enzyme interaction landscape. Sowa ME, et al. Cell, 2009 Jul 23. PMID 19615732.The Mi-2/NuRD complex associates with pericentromeric heterochromatin during S phase in rapidly proliferating lymphoid cells. Helbling Chadwick L, et al. Chromosoma, 2009 Aug. PMID 19296121.Mi2beta shows chromatin enzyme specificity by erasing a DNase I-hypersensitive site established by ACF. Ishii H, et al. J Biol Chem, 2009 Mar 20. PMID 19158090.

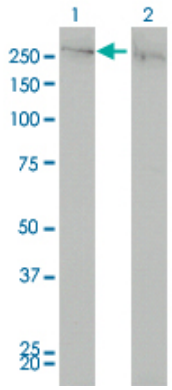
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.63 KDa) .

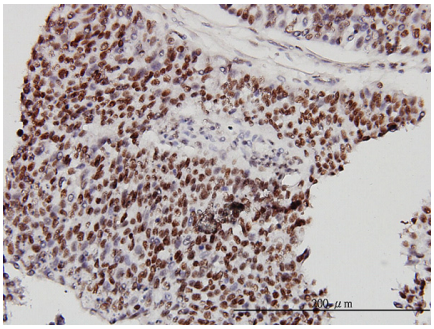


CHD4 monoclonal antibody (M01), clone 4H4 Western Blot analysis of CHD4 expression in Hela S3 NE ((Cat # AT1514a)



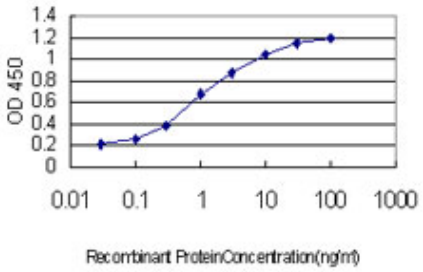
Western Blot analysis of CHD4 expression in transfected 293T cell line by CHD4 monoclonal antibody (M01), clone 4H4.

Lane 1: CHD4 transfected lysate(220 KDa).
Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to CHD4 on formalin-fixed paraffin-embedded human transitional cell carcinoma. [antibody concentration 3 ug/ml]

Detection limit for recombinant GST tagged CHD4 is



approximately 0.03ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.