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CHD3 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant CHD3.
Catalog # AT1513a

Product Information

Application	WB, IHC
Primary Accession	Q12873
Other Accession	NM_001005273
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	5.0E+12
Calculated MW	226592

Additional Information

Gene ID	1107
Other Names	Chromodomain-helicase-DNA-binding protein 3, CHD-3, ATP-dependent helicase CHD3, Mi-2 autoantigen 240 kDa protein, Mi2-alpha, Zinc finger helicase, hZFH, CHD3
Target/Specificity	CHD3 (NP_001005273, 1654 a.a. ~ 1741 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
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	CHD3 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

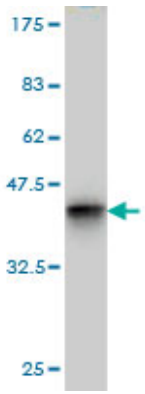
Background

This gene encodes a member of the CHD family of proteins which are characterized by the presence of chromo (chromatin organization modifier) domains and SNF2-related helicase/ATPase domains. This protein is one of the components of a histone deacetylase complex referred to as the Mi-2/NuRD complex which participates in the remodeling of chromatin by deacetylating histones. Chromatin remodeling is essential for many processes including transcription. Autoantibodies against this protein are found in a subset of patients with dermatomyositis. Three alternatively spliced transcripts encoding different isoforms have been described.

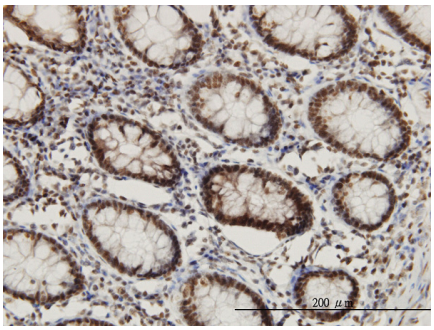
References

LSD1 is a subunit of the NuRD complex and targets the metastasis programs in breast cancer. Wang Y, et al. Cell, 2009 Aug 21. PMID 19703393.UV radiation regulates Mi-2 through protein translation and stability. Burd CJ, et al. J Biol Chem, 2008 Dec 12. PMID 18922793.Differential distribution of unmodified and phosphorylated histone deacetylase 2 in chromatin. Sun JM, et al. J Biol Chem, 2007 Nov 9. PMID 17827154.Chromatin remodeling proteins interact with pericentrin to regulate centrosome integrity. Sillibourne JE, et al. Mol Biol Cell, 2007 Sep. PMID 17626165.The C-terminal region of CHD3/ZFH interacts with the CIDD region of the Ets transcription factor ERM and represses transcription of the human presenilin 1 gene. Pastorcic M, et al. FEBS J, 2007 Mar. PMID 17489097.

Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (35.42 KDa) .



Immunoperoxidase of monoclonal antibody to CHD3 on formalin-fixed paraffin-embedded human colon. [antibody concentration 3 ug/ml]

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