CHD4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CHD4, Polyclonal Antibody
Full Product Name	CHD4 Antibody
Product Gene Name	anti-CHD4 antibody
Product Synonym Names	EC 3.6.1.-; ATP-dependent helicase CHD4; CHD-4; Mi-2 autoantigen 218 kDa protein; Mi2-beta
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Specificity	The antibody detects endogenous levels of total CHD4 protein.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	218,005 Da
Chromosome Location	Chromosome: 12; NC_000012.11 (6679248..6716551, complement). Location: 12p13
OMIM	603277
3D Structure	ModBase 3D Structure for Q14839
Immunogen	Synthesized peptide derived from internal of human CHD4.
Product Categories/Family for anti-CHD4 antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CHD4 antibody	Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-CHD4 antibody	IHC: 1:50~1:100 IF: 1:100~1:500
Related Product Information for anti-CHD4 antibody	Component of the histone deacetylase NuRD complex which participates in the remodeling of chromatin by deacetylating histones.
Product References and Citations for anti-CHD4 antibody	Seelig H.P., Arthritis Rheum. 38:1389-1399 (1995).Schmidt D.R., Biochemistry 38:14711-14717 (1999).Shimono Y., J. Biol. Chem. 278:51638-51645 (2003)
Other Notes	Small volumes of anti-CHD4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CHD4 purchase	MBS8587463 is an antibody targeting CHD4. Also known as CHD4 Antibody. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CHD4. It may not necessarily be applicable to this product.

NCBI GI #	51599156
NCBI GeneID	1108
NCBI Accession #	NP_001264.2
UniProt Primary Accession #	Q14839
UniProt Secondary Accession #	Q8IXZ5
UniProt Related Accession #	Q14839
GenBank Nucleotide #	NM_001273.2
NCBI Official Full Name	chromodomain-helicase-DNA-binding protein 4
NCBI Official Synonym Full Names	chromodomain helicase DNA binding protein 4
NCBI Official Symbol	CHD4
NCBI Official Synonym Symbols	Mi-2b; Mi2-BETA
UniProt Protein Name	Chromodomain-helicase-DNA-binding protein 4
UniProt Synonym Protein Names	ATP-dependent helicase CHD4; Mi-2 autoantigen 218 kDa protein; Mi2-beta
Protein Family	Chromodomain-helicase-DNA-binding protein
UniProt Gene Name	CHD4
UniProt Synonym Gene Names	CHD-4
UniProt Entry Name	CHD4_HUMAN
NCBI Protein Information	chromodomain-helicase-DNA-binding protein 4; CHD-4; ATP-dependent helicase CHD4; Mi-2 autoantigen 218 kDa protein
NCBI Summary for CHD4	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. [provided by RefSeq, Jul 2008]
UniProt Comments for CHD4	CHD-4: is an ATP-dependent helicase and a central component of the HDAC-containing nucleosome remodeling and histone deacetylase (NuRD) transcriptional complex. Interacts with MTA1/2, HDAC1, and RbAp46 in the NuRD complex. CHD-4 belongs to the SNF2/RAD54 helicase family of proteins. The NuRD complex, whose subunit composition varies by cell type and in response to physiologic signals, plays central roles in many processes including oncogenesis and metastasis, B cell differentiation, invasive growth of breast cancer, and maintaining the balance between the undifferentiated state and the process of differentiation in embryonic stem cells. Protein type: Helicase; DNA-binding; EC 3.6.4.12 Chromosomal Location of Human Ortholog: 12p13 Cellular Component: nucleoplasm; centrosome; protein complex; membrane; nuclear chromatin; cytoplasm; NuRD complex; nucleus Molecular Function: ATP-dependent DNA helicase activity; protein binding; nucleosomal DNA binding; DNA binding; zinc ion binding; microtubule binding; ATP binding Biological Process: regulation of transcription from RNA polymerase II promoter; establishment and/or maintenance of chromatin architecture; transcription, DNA-dependent; ATP-dependent chromatin remodeling; spindle assembly; DNA duplex unwinding
Research Articles on CHD4	**1.** repressive functions of MBD2-containing NuRD complexes are dependent on cooperative interactions between the major domains of CHD4 with histones and DNA and on binding of methylated DNA by MBD2

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