CHD4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CHD4, Polyclonal Antibody
Full Product Name	CHD4 Polyclonal Antibody
Product Gene Name	anti-CHD4 antibody
Product Synonym Names	Mi-2b; Mi2-BETA
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	221kDa
OMIM	X86691 mRNA
3D Structure	ModBase 3D Structure for Q14839
Immunogen	Recombinant protein of human CHD4
Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CHD4 antibody	Western Blot (WB)
Application Notes for anti-CHD4 antibody	WB: 1:200 - 1:500
Related Product Information for anti-CHD4 antibody	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.
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	MBS2547903 is an antibody targeting CHD4. Also known as CHD4 Polyclonal Antibody. 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_001273.3
NCBI Official Full Name	chromodomain-helicase-DNA-binding protein 4 isoform 1
NCBI Official Synonym Full Names	chromodomain helicase DNA binding protein 4
NCBI Official Symbol	CHD4
NCBI Official Synonym Symbols	CHD-4; Mi-2b; SIHIWES; 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
NCBI Protein Information	chromodomain-helicase-DNA-binding protein 4
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. Somatic mutations in this gene are associated with serous endometrial tumors. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2014]
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: DNA-binding; EC 3.6.4.12; Helicase Chromosomal Location of Human Ortholog: 12p13.31 Cellular Component: centrosome; cytoplasm; membrane; nuclear chromatin; nucleoplasm; nucleus; NuRD complex; protein complex Molecular Function: ATP-dependent DNA helicase activity; DNA binding; histone deacetylase activity; histone deacetylase binding; nucleosomal DNA binding; protein binding; zinc ion binding Biological Process: ATP-dependent chromatin remodeling; regulation of transcription from RNA polymerase II promoter Disease: Sifrim-hitz-weiss Syndrome
Research Articles on CHD4	**1.** this study identifies the Chd4-Tbx3 axis in controlling ESC fate and a role of H2A.Z in maintaining the stability of Chd4 proteins.
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