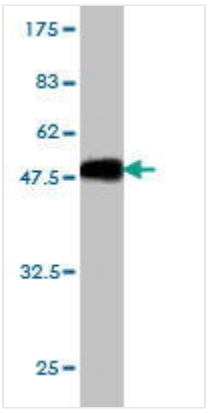
CHD4 Antibody – Mouse Monoclonal

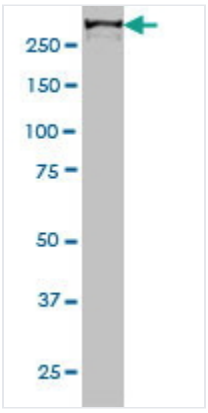
PRODUCT OVERVIEW

Product Name	CHD4, Monoclonal Antibody
Full Product Name	CHD4 (Chromodomain-helicase-DNA-binding Protein 4, CHD-4, ATP-dependent Helicase CHD4, Mi-2 Autoantigen 218kD Protein, Mi2-beta) APC
Product Gene Name	anti-CHD4 antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	4H4
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CHD4.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	220,848 Da
OMIM	603277
3D Structure	ModBase 3D Structure for Q14839
Immunogen	Partial recombinant corresponding to aa1632-1730 from human CHD4 (NP_001264) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	ETEPKGAADVEKVEEKSAIDLTPIVVEDKEEKKEEEEKKEVMLQNGETPKDLNDEKQKKNIKQRFMFNIADGGFTELHSLWQNEERAATVTKKTYEIWH
Conjugate	APC
Product Categories/Family for anti-CHD4 antibody	Antibodies; Binding Proteins
Applications Tested/Suitable for anti-CHD4 antibody	ELISA (EIA), Immunohistochemistry (IHC) Paraffin, Western Blot (WB)
Application Notes for anti-CHD4 antibody	IHC-P: 3ug/ml Applications are based on unconjugated antibody.
Related Product Information for anti-CHD4 antibody	MBS6135875 is an antibody targeting CHD4. Also known as CHD4 (Chromodomain-helicase-DNA-binding Protein 4, CHD-4, ATP-dependent Helicase CHD4, Mi-2 Autoantigen 218kD Protein, Mi2-beta) APC. Reactive in Human. Host: Mouse.

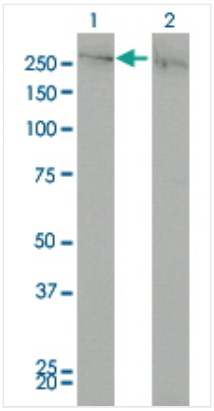
Other Notes	Small volumes of anti-CHD4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



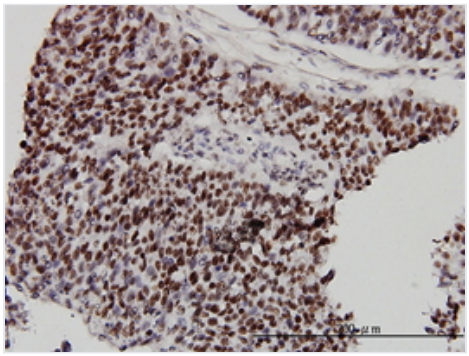
Western Blot (WB) of anti-CHD4 antibody
Western Blot detection against Immunogen (36.63kD).



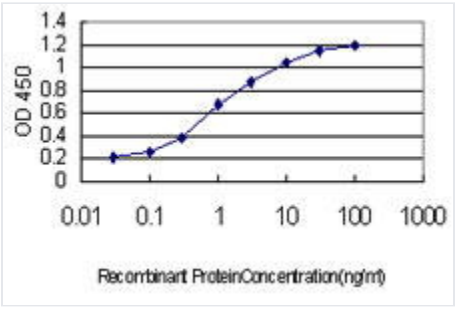
Western Blot (WB) of anti-CHD4 antibody
CHD4 monoclonal antibody, Western Blot analysis of CHD4 expression in HeLa NE.



Western Blot (WB) of anti-CHD4 antibody
Western Blot analysis of CHD4 expression in transfected 293T cell line by CHD4 monoclonal antibody. Lane 1: CHD4 transfected lysate (22kD). Lane 2: Non-transfected lysate.



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



Testing Data of anti-CHD4 antibody
Detection limit for recombinant GST tagged CHD4 is ~0.03ng/ml as a capture antibody.

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
UniProt Primary Accession #	Q14839
UniProt Secondary Accession #	Q8IXZ5

UniProt Related Accession #	Q14839
GenBank Nucleotide #	NM_001273
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; 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; ATP-dependent helicase CHD4; Mi-2 autoantigen 218 kDa protein
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
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