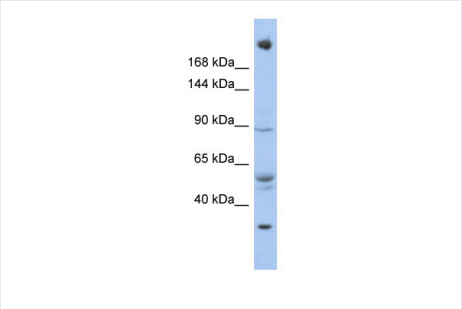
CHD4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CHD4, Polyclonal Antibody
Full Product Name	CHD4 antibody - N-terminal region
Product Gene Name	anti-CHD4 antibody
Product Synonym Gene Name	DKFZp686E06161; Mi-2b; Mi2-BETA
Immunogen Sequence	Synthetic peptide located within the following region: QKKERMLLCR QLGDSSGEGP EFVEEEEEVA LRSDSEGSDY TPGKKKKKKL
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat, Zebrafish
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Purity/Purification	Affinity Purified
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	CHD4 peptide (MBS3227006) is used for blocking the activity of CHD4 antibody (MBS3202016)
Molecular Weight	218kDa
OMIM	603277
3D Structure	ModBase 3D Structure for Q14839
Homology	Cow: 100%; Dog: 100%; Guinea Pig: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Rabbit: 100%; Rat: 100%; Zebrafish: 93%
Immunogen	The immunogen is a synthetic peptide directed towards the N terminal region of human CHD4
Product Categories/Family for anti-CHD4 antibody	Polyclonal; Transcription Factor; Signal Proteins; Transcription Regulation; Chromatin & Nuclear Signaling; Disease Related; DNA/RNA/Protein Interactions; Transcription Factors
Applications Tested/Suitable for anti-CHD4 antibody	Western Blot (WB)
Related Product Information for anti-CHD4 antibody	This is a rabbit polyclonal antibody against CHD4. It was validated on Western Blot using a cell lysate as a positive control. Target Description: CHD4 is a probable transcription regulator.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. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.
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	MBS3202016 is an antibody targeting CHD4. Also known as CHD4 antibody - N-terminal region. Reactive in Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat, Zebrafish. Host: Rabbit.



Western Blot (WB) of anti-CHD4 antibody
WB Suggested Anti-CHD4 Antibody Titration: 0.2-1 ug/mlELISA Titer: 1:12500Positive Control: OVCAR-3 cell lysateThere is BioGPS gene expression data showing that CHD4 is expressed in OVCAR3

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 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; 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
UniProt Entry Name	CHD4_HUMAN
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: 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.** that CHD4 is not only a potential prognostic biomarker for triple-negative breast cancer (TNBC) patient survival, but is also a powerful candidate in the development of new anti-cancer agents in TNBC
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