

Recombinant Human CHD4 protein, His-tagged

Cat. No. CHD4-2434H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CHD4 fused with His tag was expressed in Insect cells. CHD4 is a full-length cDNA coding for the human Mi-2 beta isoform.
Species	Human
Source	Insect Cells
Description	CHD4 is a member of a family of alleged chromodomain helicase-DNA-binding proteins. Biochemically, CHD4 is a component of the nucleosome transformation and deacetylase (NuRD) complex that takes part in transcription regulation. Autoantibodies targeting the CHD4 are a serologic feature of idiopathic inflammatory myopathies (IIM). In IIM Mi-2 antibodies are characterized by diagnostic sensitivity and specificity of approximately 4-18% and 98-100%, respectively. Moreover, anti-CHD4 antibodies are related to dermatomyositis (frequency up to 31%) and have a great positive predictive value for this type of disease subset. Anti-CHD4 are the only defined myositis-specific autoantibodies clearly focused to a nuclear target. An additional slightly outstanding feature of Mi-2 antibodies relates to their frequency in children, which is similar to that in adults.
Form	CHD4 is supplied in 20mM HEPES buffer pH-8.0 and 500mM NaCl.
Molecular Mass	221,298 Dalton
Purity	Greater than 95% as determined by SDS-PAGE.

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Applications	Western blot with myositis sera or monoclonal anti-hexa-His-tag antibody. Coating concentration: 0.3-0.7 µg/ml (depending on the type of ELISA plate and coating buffer). Suitable for biotinylation and iodination.
Storage	Store at 4 centigrade if entire vial will be used within 2-4 weeks. Store, frozen at -20 centigrade for longer periods of time. Avoid multiple freeze-thaw cycles.
GENE INFORMATION	
Gene Name	CHD4 chromodomain helicase DNA binding protein 4 [Homo sapiens]
Official Symbol	CHD4
Synonyms	CHD4; chromodomain helicase DNA binding protein 4; chromodomain-helicase-DNA-binding protein 4; Mi 2b; Mi2 BETA; CHD-4; ATP-dependent helicase CHD4; Mi-2 autoantigen 218 kDa protein; Mi-2b; Mi2-BETA; DKFZp686E06161;
Gene ID	1108
mRNA Refseq	NM_001273
Protein Refseq	NP_001264
MIM	603277
UniProt ID	Q14839
Chromosome Location	12p13
Pathway	Signaling events mediated by HDAC Class I, organism-specific biosystem;

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Function

ATP binding; ATP-dependent DNA helicase activity; DNA binding; helicase activity; hydrolase activity; hydrolase activity, acting on acid anhydrides, in phosphorus-containing anhydrides; metal ion binding; nucleotide binding; protein binding; transcription factor binding; zinc ion binding;

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