

## CHD4 Human

**Description:** CHD4 is a full-length cDNA coding for the human Mi-2 beta isoform having a molecular mass of 221,298 Dalton (pH 5.8). CHD4 protein is fused to a hexa-histidine purification tag.

Catalog #: PRPS-119

For research use only.

**Synonyms:** Chromodomain Helicase DNA binding protein 4, Mi-2b, Mi2-BETA, CHD-4, ATP-dependent helicase CHD4, Mi-2 autoantigen 218 kDa protein, EC 3.6.4.12, EC 3.6.1.

**Source:** Sf9 insect cells.

**Purity:** Greater than 95% as determined by SDS-PAGE.

**Formulation:**

CHD4 is supplied in 20mM HEPES buffer pH-8.0 and 500mM NaCl.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Applications:**

Western blot with myositis sera or monoclonal anti-hexa-His-tag antibody.

**Introduction:**

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.

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