



Human chromodomain-helicase-DNA-binding protein 4 (Mi2-beta)

Origin:	Recombinant	Cat. No.:	41A190
Tag:	N-terminal 6xHis	Size:	0.1 mg
Source:	<i>Spodoptera frugiperda</i> Sf9	Purity:	>90%
Other Names:	CHD4, Mi2-β, Mi2b	Species:	Human

Description

Expressed in insect Sf9 cells with total 1936 AA. Mw: 221.0 KDa (calculated). N-terminal 6xHis-tag and TEV cleavage site, 25 extra AA (highlighted).

Recombinant antigen for research use or manufacturing only.

Introduction to the Molecule

The Mi-2 protein is the myositis specific antigen, which is over-regulated during muscle regeneration in DM (dermatomyositis) patients.

Immunological Function

As an autoantigen, Mi-2β binds with IgG-type human auto-antibodies.

Amino Acid Sequence

MSYYHHHHHDYDIPTTENLYFQGAASGLGSPSPCSAGSEEDMDALLNNSLPPHPENE
EDPEEDLSETETPKLKKKKKPKKPRDPKIPKSKRQKKERMLLCRQLGDSSGEGPEFVEEEEEVAL
RSDSEGSDYTPGKKKKKLGPKKEKSKSKRKEEEEEEDDDDDSKPEKSSAQLLEDWGMEDI
DHVFSEEDYRTLTYKAFSQFVRPLIAAKNPKIAVSKMMMLVLAGKWREFSTNPNPKGSSGASV
AAAAAAAVAVVESMVTATEVAPPPPPVEVPIRKAKTKEGKGNARRKPKGSPRVPDAKKPKPKK
VAPLKIKLGGFGSKRKRSSSEDDDLDESDFDDASINSYSVSDGSTSRSSSRKLRRTTKKKK
KGEIEVTAVDGYETDHQDYCEVCQGGGEIILCDTCPRAYHVMCLDPDMEKAPEGKWSCPHCE
KEGIQWEAKEDNSEGEEILEEVGGDLEEDDHHMEFCRVCKDGGELLCCDTCPSYHIHCLNP
PLPEIPNGEWLCPRCTCPALKGKVQKILIWKWGQPPSPTVPRPPDADPNTPSPKLEGRPERQF
FVKWQGMYSYWHCSWVSELQLELHCQVMFRNYQRKNDMDEPPSGDFGGDEEKSRKRKNKDP
KFAEMEERFYRYGKPEWMMIHRILNHSVDKKGHVHYLIKWRDLPYDQASWESEDVEIQDYDL
FKQSYWNHRELMRGEGRPGKLLKVKLRKLERPPETPTVDPTVKYERQPEYLDATGGTLHPYQ
MEGLNWLRFWSAQGTDITLADEMGLGKTAVFLYSLYKEGHSKGPFLVSAPLSTIINWEREF
EMWAPDMYVVTVYVGDKDSRAIIRENEFSFEDNAIRGGKKASRMKKEASVKFHVLLTSYELITID
MAILGSIDWACLIVDEAHLKNNQSKFFRVLNGYSLQHKLTLTGTPLQNNLEELFHLNFLTPER
FHNLEGFLEEFADIKEDQIKKLHDMLGPHMLRRLKADVFKNMPSKTELIVRVELSPMQKKYYKY
ILTRNFEALNARGGGNQVSLNVMMDLKKCCNHPYLPVAAMEAPKMPNGMYDGSALIRASGK
LLLLQKMLKLNKEGGHRVLIFSQMTKMLDLEDFLEHEGYKYERIDGGITGNMRQEADRFRNAP
GAQQFCFLLSTRAGGLGINLATADTVIYDSWNPNDIQAFSRAHRIGQNKKVMYIRFVTRAS
VEERITQVAKKMLTHLVVRPGLGSKTGSMSKQELDDILKFGTEELFKDEATDGGGDNKEGE
DSSVIHYDDKAIERLLDRNQDETETELQGMNEYLSSFKVAQYVVREEEMGEEEVEREIIKQE
ESVDPDYWEKLLRHHYEQQQEDLARNLGKGRIRKQVNYNDGSQEDRDWQDDQSDNQSDY





SVASEEGDEDFDERSEAPRRPSRKGLRNDKDKPLPPLLARVGGNIEVLGFNARQRKAFLNAIMR
YGMPPQDAFTTQWLVRDLRGKSEKEFKAYVSLFMRHLCEPGADGAETFADGVPREGLSRQHVL
TRIGVMSLIRKKVQEFHVNGRWSMPELAEVEENKKMSQPGSPSPKTPTPSTPGDTQPNTAP
VPPAEDGIKIEENSLKEEESIEGEKEVKSTAPETAIECTQAPAPASEDEKVVVEPPEGEEKVEKAE
VKERTEEPMETEPKGAADVEKVEEKSAIDLTPIVVEDKEEKKEEEEKKEVMLQNGETPKDLNDE
KQKKNIKQRFMFNIADGGFTELHSLWQNEERAATVTKKTYEIWHRHDYWLLAGIINHGYARW
QDIQNDPRYAILNEPFKGEMNRGNFLEIKNKFLARRFKLLEQALVIEEQLRRAAYLNMSEDPSHP
SMALNTRFAEVECLAESHQHLSESMAGNKPANAVLHKVLKQLEELLSDMKADVTRLPATIARI
PPVAVRLQMSERNILSRLANRAPEPTPQQVAQQQ

Applications

Standard ELISA test, line/dot assay and microarray assay with positive/negative sera panels.

Formulation

Liquid in storage buffer (50mM Tris, 300-500mM NaCl, 10% Glycerol, Protease inhibitor, pH8.0).

Storage

Store at -80°C. Avoid repeated freezing/thawing cycles.

Quality Control Test

BCA to determine quantity of the protein.
SDS PAGE to determine purity of the protein.
Immunodot analysis to determine functionality of protein.

SDS-PAGE Gel



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