



Mi2- α Monoclonal Antibody

Catalog No	BYab-17506
Isotype	IgG
Reactivity	Human;Mouse;Rat;Bovine;Dog;Pig
Applications	WB;IHC;IF;FCM
Gene Name	CHD3
Protein Name	Chromodomain-helicase-DNA-binding protein 3
Immunogen	Purified recombinant human Mi2- α (C-terminus) protein fragments expressed in E.coli.
Specificity	Mi2- α Monoclonal Antibody detects endogenous levels of Mi2- α protein.
Formulation	Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol.
Source	Monoclonal, Mouse
Purification	Affinity purification
Dilution	Western Blot: 1/1000 - 1/2000. Immunohistochemistry: 1/500 - 1/1000. Immunofluorescence: 1/100 - 1/500. Flow cytometry: 1/100 - 1/200. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	$\geq 90\%$
Storage Stability	-20°C/1 year
Synonyms	CHD3; Chromodomain-helicase-DNA-binding protein 3; CHD-3; ATP-dependent helicase CHD3; Mi-2 autoantigen 240 kDa protein; Mi2-alpha; Zinc finger helicase; hZFH
Observed Band	
Cell Pathway	Nucleus, PML body . Nucleus . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Associates with centrosomes in interphase and mitosis. .
Tissue Specificity	Widely expressed.
Function	disease:One of the main antigens reacting with anti-MI-2 positive sera of dermatomyositis.,function:Probable transcription regulator.,sequence caution:Differs from position 1967 onward for unknown reasons.,similarity:Belongs to the SNF2/RAD54 helicase family.,similarity:Contains 1 helicase ATP-binding domain.,similarity:Contains 1 helicase C-terminal domain.,similarity:Contains 2 chromo domains.,similarity:Contains 2 PHD-type zinc fingers.,subunit:Central component of the nucleosome remodeling and histone deacetylase (NuRD) repressive

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complex. Interacts with TRIM28 and SERBP1. Interacts via its C-terminal region with HABP4.,tissue specificity:Widely expressed.,

Background

This gene encodes a member of the CHD family of proteins which are characterized by the presence of chromo (chromatin organization modifier) domains and SNF2-related helicase/ATPase domains. This protein is one of the components of a histone deacetylase complex referred to as the Mi-2/NuRD complex which participates in the remodeling of chromatin by deacetylating histones. Chromatin remodeling is essential for many processes including transcription. Autoantibodies against this protein are found in a subset of patients with dermatomyositis. Three alternatively spliced transcripts encoding different isoforms have been described. [provided by RefSeq, Jul 2008],

matters needing attention

Avoid repeated freezing and thawing!

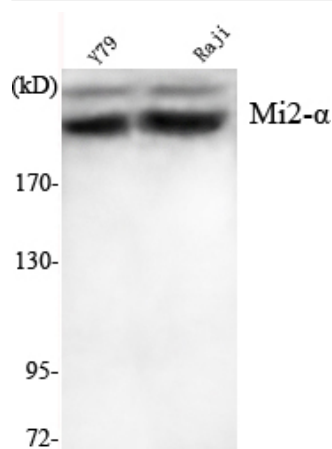
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

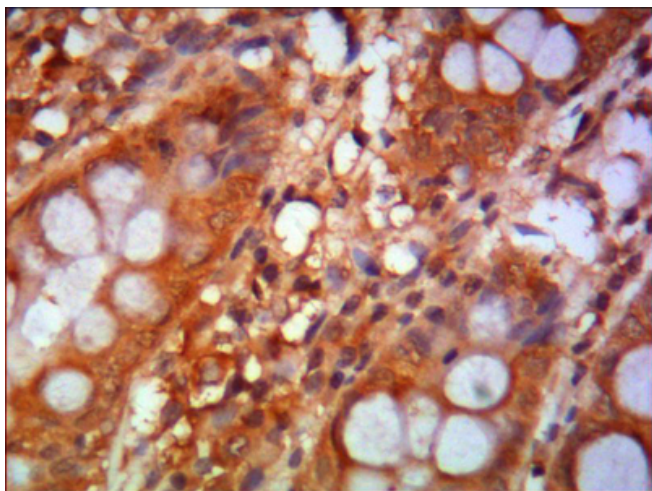
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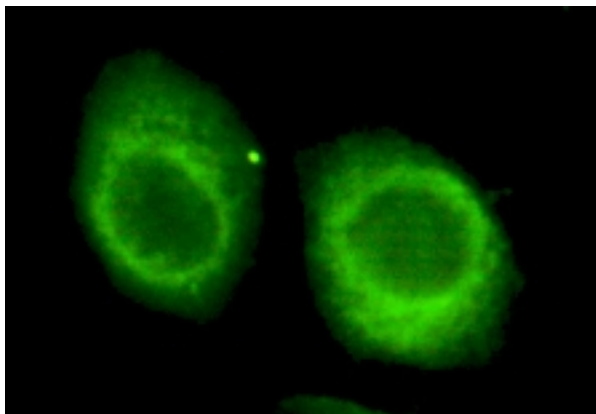
Products Images



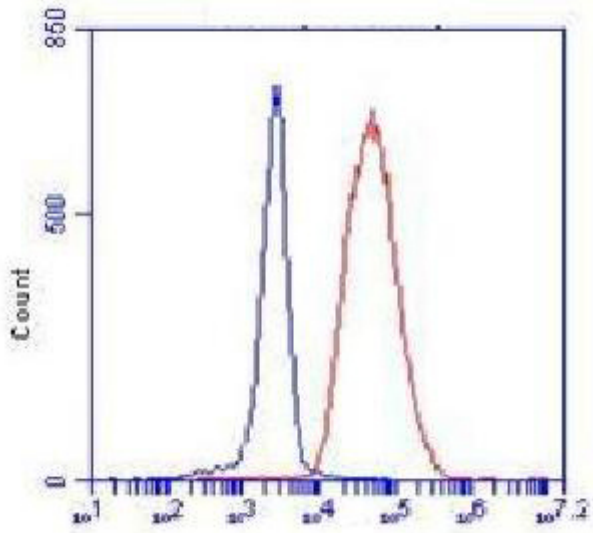
Western Blot analysis using Mi2- α Monoclonal Antibody against Y7P, Raji cell lysate.



Immunohistochemistry analysis of paraffin-embedded human colon using Mi2- α Monoclonal Antibody.



Immunofluorescence analysis of HeLa cells using Mi2- α Monoclonal Antibody.



Flow cytometric analysis of K562 cells stained with Mi2- α Monoclonal Antibody (red), followed by FITC-conjugated goat anti-mouse IgG. Blue line histogram represents the isotype control, normal mouse IgG.