

Mi2- α Monoclonal Antibody

Catalog No :	YM0442
Reactivity :	Human;Mouse
Applications :	WB;IHC;IF;FCM;ELISA
Target :	Mi2- α
Gene Name :	CHD3
Protein Name :	Chromodomain-helicase-DNA-binding protein 3
Human Gene Id :	1107
Human Swiss Prot No :	Q12873
Immunogen :	Purified recombinant fragment of human Mi2- α expressed in E. Coli.
Specificity :	Mi2- α Monoclonal Antibody detects endogenous levels of Mi2- α protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	WB 1:500 - 1:2000. IHC 1:200 - 1:1000. IF 1:200 - 1:1000. Flow cytometry: 1:200 - 1:400. ELISA: 1:10000. Not yet tested in other applications.
Purification :	Affinity purification
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	227kD
P References :	1. Virus Res. 2003 Dec;98(1):83-91. 2. Mol Cell. 2004 Sep 24;15(6):853-65. 3. J Biol Chem. 2008 Dec 12;283(50):34976-82.
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],

Function :

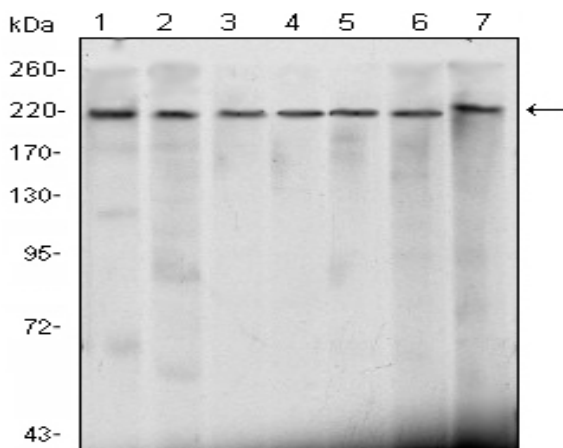
disease:One of the main antigens reacting with anti-MI-2 positive sera of dermatomyositis.,function:Probable transcription regulator.,sequence caution:Differs from position 1967 onward for unknown reasons.,similarity:Belongs to the SNF2/RAD54 helicase family.,similarity:Contains 1 helicase ATP-binding 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 complex. Interacts with TRIM28 and SERBP1. Interacts via its C-terminal region with HAP4.,tissue specificity:Widely expressed.,

Subcellular Location :

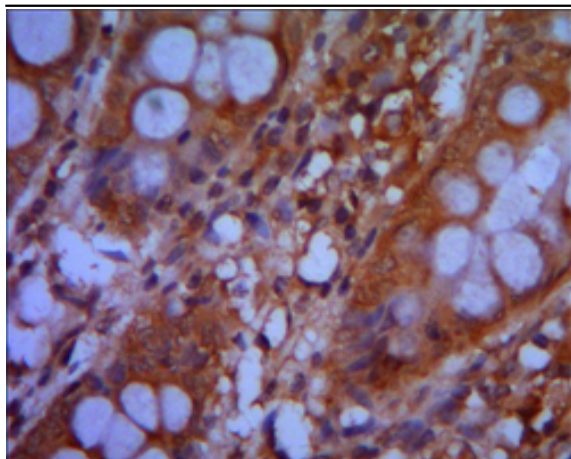
Nucleus, PML body . Nucleus . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Associates with centrosomes in interphase and mitosis. .

Expression :

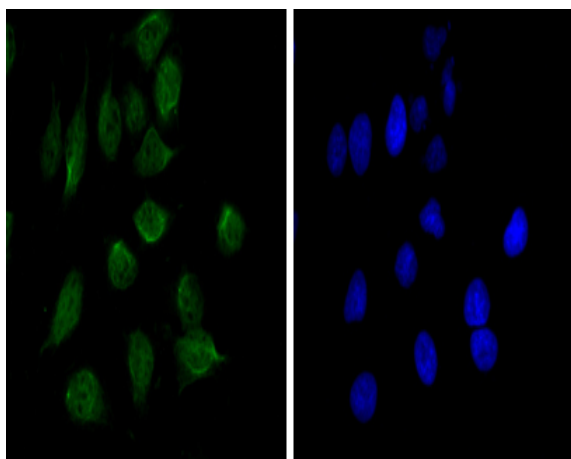
Widely expressed.

Products Images

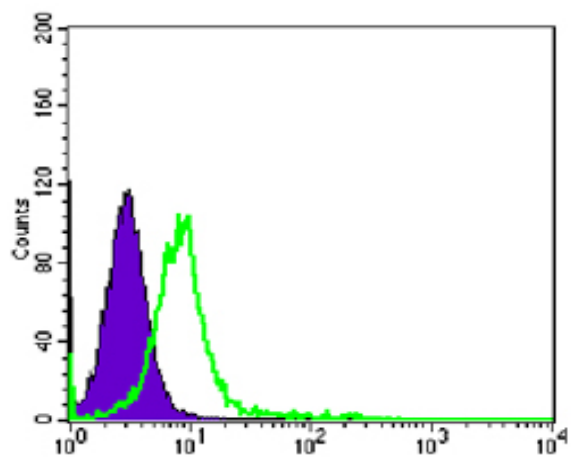
Western Blot analysis using Mi2- α Monoclonal Antibody against HeLa (1), K562 (2), Jurkat (3), NTERA-2 (4), HEK293 (5), Raji (6) cell lysate and mouse brain (7) tissue lysate.



Immunohistochemistry analysis of paraffin-embedded colon cancer tissues with DAB staining using Mi2- α Monoclonal Antibody.



Immunofluorescence analysis of HeLa cells using Mi2- α Monoclonal Antibody (green). Blue: DRAQ5 fluorescent DNA dye.



Flow cytometric analysis of K562 cells using Mi2- α Monoclonal Antibody (green) and negative control (purple).