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CHD4 Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AP52781

Product Information

Application	WB, IP
Primary Accession	Q14839
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b
Calculated MW	218005

Additional Information

Gene ID	1108
Other Names	ATP dependent helicase CHD4;ATP-dependent helicase CHD4;CHD 4;CHD-4;CHD4;CHD4_HUMAN; Chromodomain helicase DNA binding protein 4;Chromodomain-helicase-DNA-binding protein 4;DKFZp686E06161;Mi 2 autoantigen 218 kDa protein;Mi 2b;Mi-2 autoantigen 218 kDa protein;Mi2 beta;Mi2-beta.
Dilution	WB~~1:1000 IP~~1:500
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

Name	CHD4
Function	ATP-dependent chromatin-remodeling factor that binds and distorts nucleosomal DNA (PubMed:28977666, PubMed:32543371). Acts as a component of the histone deacetylase NuRD complex which participates in the remodeling of chromatin (PubMed:16428440, PubMed:17626165, PubMed:28977666, PubMed:9804427). Localizes to acetylated damaged chromatin in a ZMYND8-dependent manner, to promote transcriptional repression and double-strand break repair by homologous recombination (PubMed:25593309). Involved in neurogenesis (By similarity).
Cellular Location	Nucleus. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Note=Associates with centrosomes in interphase (By similarity). Localizes to sites of DNA damage in a manner dependent on ZMYND8 and

ZNF687 (PubMed:27732854, PubMed:28977666).
{ECO:0000250|UniProtKB:Q6PDQ2, ECO:0000269|PubMed:27732854,
ECO:0000269|PubMed:28977666}

Tissue Location Widely expressed..

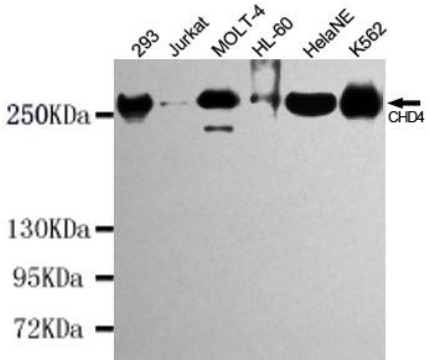
Background

Component of the histone deacetylase NuRD complex which participates in the remodeling of chromatin by deacetylating histones.

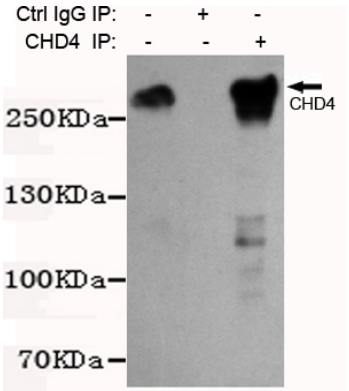
References

Seelig H.P.,et al.Arthritis Rheum. 38:1389-1399(1995).
Scherer S.E.,et al.Nature 440:346-351(2006).
Tong J.K.,et al.Nature 395:917-921(1998).
Schmidt D.R.,et al.Biochemistry 38:14711-14717(1999).
Kim J.,et al.Immunity 10:345-355(1999).

Images



Western blot detection of CHD4 in K562,HelaNE,HL-60,MOLT-4,Jurkat and 293 cell lysates using CHD4 mouse mAb (1:1000 diluted).Predicted band size:260KDa.Observed band size:260KDa.



Immunoprecipitation analysis of K562 cell lysates using CHD4 mouse mAb.

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