

Anti-CHD3 Antibody

Catalog # AP95771

Product Information

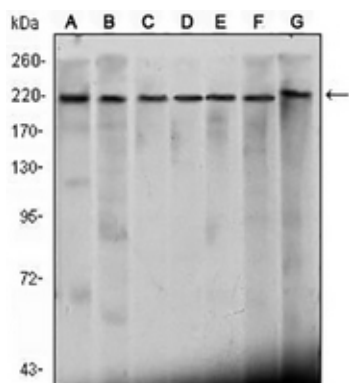
Application	WB, IHC, FC, IF/IC
Primary Accession	Q12873
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Calculated MW	226592

Additional Information

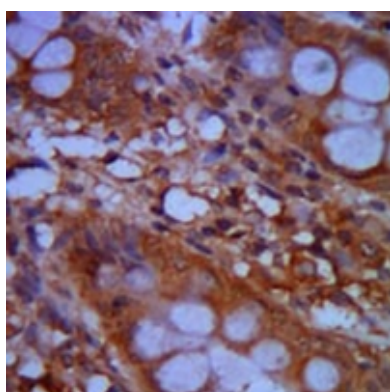
Gene ID	1107
Other Names	Chromodomain-helIC, ase-DNA-binding protein 3; CHD-3; ATP-dependent helIC, ase CHD3; Mi-2 autoantigen 240 kDa protein; Mi2-alpha; Zinc finger helIC, ase; hZFH
Target/Specificity	Recombinant fusion protein of human CHD3 expressed in E. Coli
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~FC (1/100 - 1/200) IF/IC~~N/A
Format	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

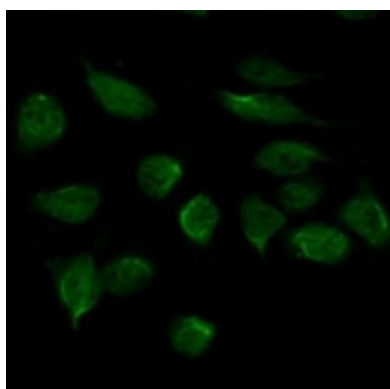
Name	CHD3
Function	ATP-dependent chromatin-remodeling factor that binds and distorts nucleosomal DNA (PubMed: 28977666). Acts as a component of the histone deacetylase NuRD complex which participates in the remodeling of chromatin (PubMed: 16428440 , PubMed: 28977666 , PubMed: 30397230 , PubMed: 9804427). Involved in transcriptional repression as part of the NuRD complex (PubMed: 27068747). Required for anchoring centrosomal pericentrin in both interphase and mitosis, for spindle organization and centrosome integrity (PubMed: 17626165).
Cellular Location	Nucleus, PML body. Nucleus. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome Note=Associates with centrosomes in interphase and mitosis (PubMed:17626165). Localizes to sites of DNA damage (PubMed:28977666)
Tissue Location	Widely expressed.



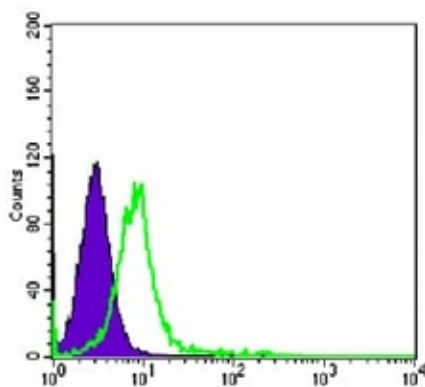
Western blot analysis of CHD3 expression in Hela (A), K562 (B), Jurkat (C), NTERA2 (D), HEK293 (E), Raji (F), mouse brain (G) whole cell lysates. (Predicted band size: 226 kD; Observed band size: 220 kD)



Immunohistochemical analysis of CHD3 staining in human colon cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of CHD3 staining in Hela cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).



Flow cytometric analysis of K562 cells using Anti-CHD3 Antibody (green) and negative control (red).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.