

# CHD3 Antibody

Purified Mouse Monoclonal Antibody Catalog # AO1344a

#### **Product Information**

**Application** WB, IHC, FC, ICC, E

Primary Accession <u>Q12873</u>

**Reactivity** Human, Mouse

Host Mouse
Clonality Monoclonal

Clone Names2G4IsotypeIgG1Calculated MW226592

**Description** 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.

**Immunogen** Purified recombinant fragment of human CHD3 expressed in E. Coli.

**Formulation** Purified antibody in PBS with 0.05% sodium azide.

### **Additional Information**

Gene ID 1107

Other Names Chromodomain-helicase-DNA-binding protein 3, CHD-3, 3.6.4.12,

ATP-dependent helicase CHD3, Mi-2 autoantigen 240 kDa protein, Mi2-alpha,

Zinc finger helicase, hZFH, CHD3

Dilution WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 FC~~1/200 - 1/400 ICC~~N/A

E~~N/A

**Storage** Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions** CHD3 Antibody is for research use only and not for use in diagnostic or

therapeutic procedures.

#### **Protein Information**

Name CHD3

**Function** ATP-dependent chromatin-remodeling factor that binds and distorts

nucleosomal DNA (PubMed:<u>28977666</u>). 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:<u>27068747</u>). 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.

#### 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.

## **Images**

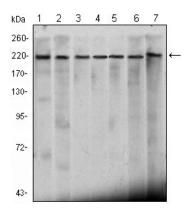


Figure 1: Western blot analysis using CHD3 mouse mAb against Hela (1), K562 (2), Jurkat (3), NTERA-2 (4), HEK293 (5), Raji (6) cell lysate and mouse brain (7) tissue lysate.

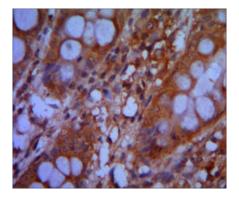


Figure 2: Immunohistochemical analysis of paraffin-embedded colon cancer tissues using CHD3 mouse mAb with DAB staining.

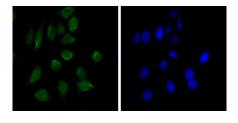


Figure 3: Immunofluorescence analysis of Hela cells using CHD3 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye.

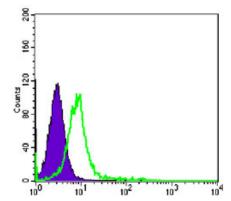


Figure 4: Flow cytometric analysis of K562 cells using CHD3 mouse mAb (green) and negative control (purple).

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