Recombinant CHD1 Monoclonal Antibody

catalog number: **AN301930L**

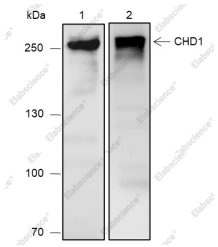
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Human;Mouse
Immunogen	Recombinant human CHD1 fragment
Host	Rabbit
Isotype	Rabbit IgG
Clone	C231551
Purification	Protein A affinity purification
Conjugation	Unconjugated
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications	Recommended Dilution
WB	1:1000

Data



Western Blot with CHD1 Monoclonal Antibody at dilution of 1:1000. Lane 1: MOLT-4, Lane 2: Neuro-2a

Observed-MW:250 kDa

Calculated-MW:197 kDa

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze/thaw cycles.
Shipping	Ice bag

Background

CHD1 belongs to the SNF2/RAD54 helicase family. CHD1 is an aTP-dependent chromatin-remodeling factor which functions as substrate recognition component of the transcription regulatory histone acetylation (HAT) complex SAGA. CHD1 regulates polymerase II transcription. It is required for efficient transcription by RNA polymerase I, and more specifically the polymerase I transcription termination step. CHD1 negatively regulates DNA replication. CHD1 is associated with histone deacetylase (HDAC) activity. CHD1 is required for the bridging of SNF2, the FACT complex, the PAF complex as well as the U2 snRNP complex to H3K4me3. It functions to modulate the efficiency of pre-mRNA splicing in part through physical bridging of spliceosomal components to H3K4me3. It is required for maintaining open chromatin and pluripotency in embryonic stem cells. In PTEN-deficient prostate and breast cancers, CHD1 depletion profoundly and specifically suppressed cell proliferation, cell survival and tumorigenic potential.

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