10320 Camino Santa Fe, Suite G
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Anti-CHD2 Antibody
Catalog # ABO13026

Specification

Anti-CHD2 Antibody - Product Information

Application	**WB, IHC-P**
Primary Accession	O14647
Host	**Rabbit**
Reactivity	**Human, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Chromodomain-helicase-DNA-binding protein 2(CHD2) detection. Tested with WB, IHC-P in Human;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-CHD2 Antibody - Additional Information

Gene ID 1106

Other Names
Chromodomain-helicase-DNA-binding protein 2, CHD-2, 3.6.4.12, ATP-dependent helicase CHD2, CHD2

Calculated MW
211344 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Rat, Human, By Heat
 Western blot, 0.1-0.5 µg/ml, Human,

Subcellular Localization
Nucleus . Binds to myogenic gene promoters. .

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
E. coli-derived human CHD2 recombinant protein (Position: R1124-K1351). Human CHD2 shares 97.4% amino acid (aa) sequence identity with mouse CHD2.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins.

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time. Avoid repeated freezing and thawing.**

Anti-CHD2 Antibody - Protein Information

Name CHD2

Function
ATP-dependent chromatin-remodeling factor that specifically binds to the promoter of target genes, leading to chromatin remodeling, possibly by promoting deposition of histone H3.3. Involved in myogenesis via interaction with MYOD1: binds to myogenic gene regulatory sequences and mediates incorporation of histone H3.3 prior to the onset of myogenic gene expression, promoting their expression (By similarity).

Cellular Location
Nucleus. Note=Binds to myogenic gene promoters.

Anti-CHD2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-CHD2 Antibody - Images

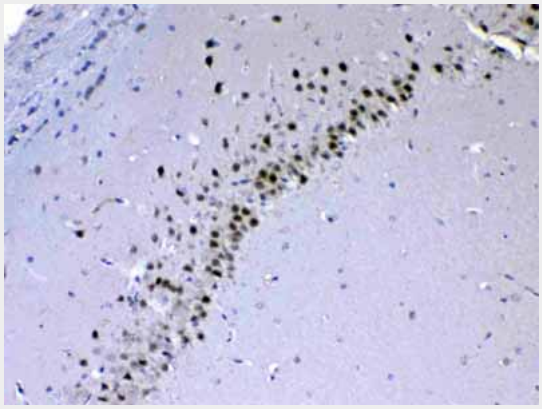

Figure 2. IHC analysis of CHD2 using anti-CHD2 antibody (ABO13026).

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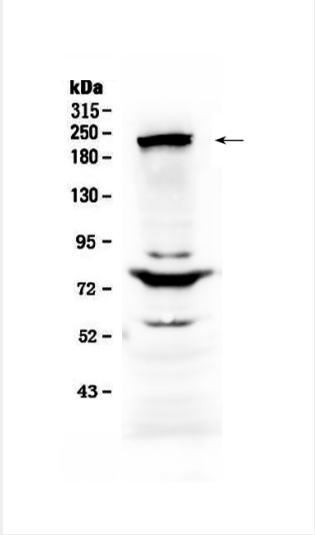

Anti-CHD2 Antibody - Background

Chromodomain-helicase-DNA-binding protein 2 is an enzyme that in humans is encoded by the CHD2 gene. The CHD family of proteins is characterized by the presence of chromo (chromatin organization modifier) domains and SNF2-related helicase/ATPase domains. CHD genes alter gene expression possibly by modification of chromatin structure thus altering access of the transcriptional apparatus to its chromosomal DNA template. CHD2 catalyzes the assembly of chromatin into periodic arrays; and the N-terminal region of CHD2, which contains tandem chromodomains, serves an auto-inhibitory role in both the DNA-binding and ATPase activities of CHD2.