

Rabbit CHD2 Polyclonal Antibody | anti-CHD2 antibody

Anti-CHD2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA124718	Rabbit	Human, Rat No cross reactivity with other proteins.	Western Blot, Immunohistochemistry

PRODUCT SYNONYMS

CHD2; Polyclonal Antibody; Anti-CHD2 Antibody; Chromodomain-helicase-DNA-binding protein 2; CHD-2; 3.6.4.12; ATP-dependent helicase CHD2; anti-CHD2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat No cross reactivity with other proteins.
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified
Form/Format	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml. (varies by lot)
Sequence Length	501
Applicable Applications for anti-CHD2 antibody	WB (Western Blot), IHC (Immunohistochemistry)
Immunogen	E Coli-derived human CHD2 recombinant protein (Position: R1124-K1351). Human CHD2 shares 97.4% amino acid (aa) sequence identity with mouse CHD2.
Subcellular Localization	Nucleus. Binds to myogenic gene promoters.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



WB (Western Blot)

Figure 1. Western blot analysis of CHD2 using anti-CHD2 antibody (AAA124718).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: human HepG2 whole Cell lysate.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-CHD2 antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for CHD2 at approximately 211KD. The expected band size for CHD2 is at 211KD.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of CHD2 using anti-CHD2 antibody (AAA124718).CHD2 was detected in paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-CHD2 Antibody (AAA124718) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-CHD2 antibody	Description: 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. Protein Function: DNA-binding helicase 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).
Product Categories/Family for anti-CHD2 antibody	Epigenetics and Nuclear Signaling; Chromatin Remodeling; swi/snf; Epigenetics and Nuclear Signaling; Transcription; Other factors

NCBI AND UNIPROT INFORMATION

NCBI GI #	110611184
NCBI GeneID	1106
NCBI Accession #	NP_001036037.1
NCBI GenBank Nucleotide #	NM_001042572.2
UniProt Accession #	O14647; Q96IP5; C6G482
Molecular Weight	211344 MW
NCBI Official Full Name	chromodomain-helicase-DNA-binding protein 2 isoform 2
NCBI Official Synonym Full Names	chromodomain helicase DNA binding protein 2
NCBI Official Symbol	CHD2
NCBI Official Synonym Symbols	EEOC
NCBI Protein Information	chromodomain-helicase-DNA-binding protein 2
UniProt Protein Name	Chromodomain-helicase-DNA-binding protein 2
UniProt Gene Name	CHD2
UniProt Synonym Gene Names	CHD-2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/chd2-antibody-western-blot-immunohistochemistry-elisa/124718>