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CHD1L Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16423c

Specification

CHD1L Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	Q86WJ1
Other Accession	NP_004275.3
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**101000**
Antigen Region	**561-590**

CHD1L Antibody (Center) - Additional Information

Gene ID 9557

Other Names
Chromodomain-helicase-DNA-binding protein 1-like, Amplified in liver cancer protein 1, CHD1L, ALC1

Target/Specificity
This CHD1L antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 561-590 amino acids from the Central region of human CHD1L.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
CHD1L Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

CHD1L Antibody (Center) - Protein Information

Name CHD1L {ECO:0000303|PubMed:34210977, ECO:0000312|HGNC:HGNC:1916}

Function ATP-dependent chromatin remodeler that mediates chromatin- remodeling following DNA damage (PubMed:19661379, PubMed:29220652, PubMed:29220653, PubMed:33357431, PubMed:34210977, PubMed:34486521, PubMed:34874266). Recruited to DNA damage sites through interaction with poly-ADP-ribose: specifically recognizes and binds histones that are poly-ADP-ribosylated on serine residues in response to DNA damage (PubMed:19661379, PubMed:29220652, PubMed:29220653, PubMed:34486521, PubMed:34874266). Poly-ADP-ribose-binding activates the ATP-dependent chromatin remodeler activity, thereby regulating chromatin during DNA repair (PubMed:19661379, PubMed:29220652, PubMed:29220653, PubMed:34486521, PubMed:34874266). Catalyzes nucleosome sliding away from DNA breaks in an ATP-dependent manner (PubMed:19661379, PubMed:29220652, PubMed:29220653). Chromatin remodeling activity promotes PARP2 removal from chromatin (PubMed:33275888).

Cellular Location
Nucleus. Chromosome Note=Localizes at sites of DNA damage; recruited by histones H2B and H3 poly-ADP-ribosylated on 'Ser-6' and 'Ser-10', respectively (H2BS6ADPr and H3S10ADPr) by PARP1 or PARP2.

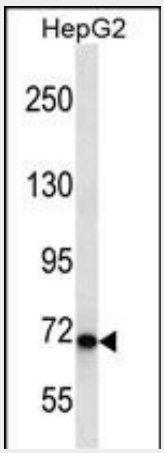
Tissue Location
Frequently overexpressed in hepatomacellular carcinomas.

CHD1L Antibody (Center) - 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

CHD1L Antibody (Center) - Images



CHD1L Antibody (Center) (Cat. #AP16423c) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the CHD1L antibody detected the CHD1L protein (arrow).

CHD1L Antibody (Center) - Background

In response to DNA strand breaks, chromatin adopts a relaxed structure due to the addition of poly(ADP-ribose) (PAR) to chromatin proteins by PARP enzymes (see PARP1; MIM 173870), and this relaxation facilitates the repair of DNA damage. CHD1L interacts with PAR and has a role in chromatin relaxation following DNA damage (Ahel et al., 2009 [PubMed 19661379]).[supplied by OMIM].

CHD1L Antibody (Center) - References

Liu, C.Y., et al. Carcinogenesis 31(7):1259-1263(2010)
Chen, L., et al. J. Clin. Invest. 120(4):1178-1191(2010)
Ahel, D., et al. Science 325(5945):1240-1243(2009)
Gottschalk, A.J., et al. Proc. Natl. Acad. Sci. U.S.A. 106(33):13770-13774(2009)
Melzer, D., et al. PLoS Genet. 4 (5), E1000072 (2008) :