

CHD1L Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51085**Specification**

CHD1L Antibody - Product Information

Application	WB, E
Primary Accession	Q86WJ1
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	101 KDa

CHD1L Antibody - Additional Information**Gene ID** 9557**Other Names**

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

Target/Specificity

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human CHD1L. The exact sequence is proprietary.

Dilution

WB~~1:1000

E~~N/A

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

CHD1L Antibody - 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 - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CHD1L Antibody - Images

CHD1L Antibody - Background

DNA helicase which plays a role in chromatin-remodeling following DNA damage. Targeted to sites of DNA damage through interaction with poly(ADP-ribose) and functions to regulate chromatin during DNA repair. Able to catalyze nucleosome sliding in an ATP-dependent manner. Helicase activity is strongly stimulated upon poly(ADP-ribose)-binding.

CHD1L Antibody - References

Ma N.-F.,et al.Hepatology 47:503-510(2008).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Bechtel S.,et al.BMC Genomics 8:399-399(2007).

Gregory S.G.,et al.Nature 441:315-321(2006).

Totoki Y.,et al.Submitted (APR-2005) to the EMBL/GenBank/DDBJ databases.