

CHD1L Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP16423c**Specification**

CHD1L Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q86WJ1](#)**CHD1L Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 9557**Other Names**

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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CHD1L Antibody (Center) Blocking Peptide - 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:34486521, PubMed:34874266, PubMed:34210977). 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:34874266, PubMed:34486521). Poly-ADP-ribose-binding activates the ATP-dependent chromatin remodeler activity, thereby regulating chromatin during DNA repair (PubMed:<a

[19661379](http://www.uniprot.org/citations/19661379), PubMed: [29220652](http://www.uniprot.org/citations/29220652), PubMed: [29220653](http://www.uniprot.org/citations/29220653), PubMed: [34874266](http://www.uniprot.org/citations/34874266), PubMed: [34486521](http://www.uniprot.org/citations/34486521)). Catalyzes nucleosome sliding away from DNA breaks in an ATP-dependent manner (PubMed: [19661379](http://www.uniprot.org/citations/19661379), PubMed: [29220652](http://www.uniprot.org/citations/29220652), PubMed: [29220653](http://www.uniprot.org/citations/29220653)). Chromatin remodeling activity promotes PARP2 removal from chromatin (PubMed: [33275888](http://www.uniprot.org/citations/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) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

CHD1L Antibody (Center) Blocking Peptide - Images

CHD1L Antibody (Center) Blocking Peptide - 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) Blocking Peptide - 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) :