

**DCLRE1B Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP5426c**

**Specification**

**DCLRE1B Antibody (Center) - Product Information**

Application	<b>WB, IHC-P,E</b>
Primary Accession	<a href="#">Q9H816</a>
Other Accession	<a href="#">NP_073747.1</a>
Reactivity	<b>Human, Mouse</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit Ig</b>
Antigen Region	<b>208-236</b>

**DCLRE1B Antibody (Center) - Additional Information**

**Gene ID** 64858

**Other Names**

5' exonuclease Apollo, 31--, DNA cross-link repair 1B protein, SNM1 homolog B, SNMIB, hSNM1B, DCLRE1B, SNM1B

**Target/Specificity**

This DCLRE1B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 208-236 amino acids from the Central region of human DCLRE1B.

**Dilution**

WB~~1:1000  
IHC-P~~1:10~50

**Format**

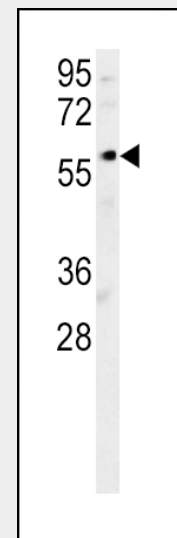
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

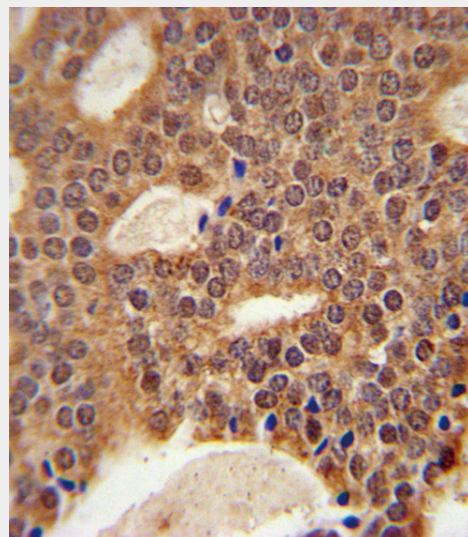
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

DCLRE1B Antibody (Center) is for research



DCLRE1B Antibody (Center)(Cat. #AP5426c) western blot analysis in mouse kidney tissue lysates (35ug/lane).This demonstrates the DCLRE1B antibody detected DCLRE1B protein (arrow).



DCLRE1B Antibody (Center) (Cat. #AP5426c) immunohistochemistry analysis in formalin fixed and paraffin embedded human prostate carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use

use only and not for use in diagnostic or therapeutic procedures.

#### **DCLRE1B Antibody (Center) - Protein Information**

**Name** DCLRE1B

**Synonyms** SNM1B

#### **Function**

5'-3' exonuclease that plays a central role in telomere maintenance and protection during S-phase. Participates in the protection of telomeres against non-homologous end-joining (NHEJ)-mediated repair, thereby ensuring that telomeres do not fuse. Plays a key role in telomeric loop (T loop) formation by being recruited by TERF2 at the leading end telomeres and by processing leading-end telomeres immediately after their replication via its exonuclease activity: generates 3' single-stranded overhang at the leading end telomeres avoiding blunt leading-end telomeres that are vulnerable to end-joining reactions and expose the telomere end in a manner that activates the DNA repair pathways. Together with TERF2, required to protect telomeres from replicative damage during replication by controlling the amount of DNA topoisomerase (TOP1, TOP2A and TOP2B) needed for telomere replication during fork passage and prevent aberrant telomere topology. Also involved in response to DNA damage: plays a role in response to DNA interstrand cross-links (ICLs) by facilitating double-strand break formation. In case of spindle stress, involved in prophase checkpoint.

#### **Cellular Location**

Chromosome, telomere. Nucleus.  
Cytoplasm, cytoskeleton, microtubule organizing center, centrosome.  
Note=Mainly localizes to telomeres, recruited via its interaction with TERF2  
During mitosis, localizes to the centrosome

#### **DCLRE1B Antibody (Center) - Protocols**

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

of the DCLRE1B Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

#### **DCLRE1B Antibody (Center) - Background**

DNA interstrand cross-links prevent strand separation, thereby physically blocking transcription, replication, and segregation of DNA. DCLRE1B is one of several evolutionarily conserved genes involved in repair of interstrand cross-links (Dronkert et al., 2000 [PubMed 10848582]).

#### **DCLRE1B Antibody (Center) - References**

Anders, M., et al. *Cell Cycle* 8(11):1725-1732(2009) Liu, L., et al. *Cell Cycle* 8(4):628-638(2009) Freibaum, B.D., et al. *J. Biol. Chem.* 283(35):23671-23676(2008) Bae, J.B., et al. *Oncogene* 27(37):5045-5056(2008) Demuth, I., et al. *DNA Repair (Amst.)* 7(8):1192-1201(2008) Matsuoka, S., et al. *Science* 316(5828):1160-1166(2007) Lenain, C., et al. *Curr. Biol.* 16(13):1303-1310(2006) Freibaum, B.D., et al. *J. Biol. Chem.* 281(22):15033-15036(2006) Ishiai, M., et al. *Mol. Cell. Biol.* 24(24):10733-10741(2004) Demuth, I., et al. *Oncogene* 23(53):8611-8618(2004) Dronkert, M.L., et al. *Mol. Cell. Biol.* 20(13):4553-4561(2000)

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

**DCLRE1B Antibody (Center) - Citations**

- [Characterization of the human SNM1A and SNM1B/Apollo DNA repair exonucleases.](#)