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# DCLRE1A Antibody (Center) Blocking Peptide
**Synthetic peptide**
**Catalog # BP9871c**

## Specification

### DCLRE1A Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q6PJP8

### DCLRE1A Antibody (Center) Blocking Peptide - Additional Information

**Gene ID** 9937

**Other Names**
DNA cross-link repair 1A protein, SNM1 homolog A, hSNM1, hSNM1A, DCLRE1A, KIAA0086, SNM1, SNM1A

**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.

### DCLRE1A Antibody (Center) Blocking Peptide - Protein Information

**Name** DCLRE1A

**Synonyms** KIAA0086, SNM1, SNM1A

**Function**
May be required for DNA interstrand cross-link repair. Also required for checkpoint mediated cell cycle arrest in early prophase in response to mitotic spindle poisons. Possesses beta-lactamase activity, catalyzing the hydrolysis of penicillin G and nitrocefin (PubMed:<a href="http://www.uniprot.org/citations/31434986" target="_blank">31434986</a>). Exhibits no activity towards other beta-lactam antibiotic classes including cephalosporins (cefotaxime) and carbapenems (imipenem) (PubMed:<a href="http://www.uniprot.org/citations/31434986" target="_blank">31434986</a>).

**Cellular Location**
Nucleus. Note=In some cells it may be found in typically 1 or 2 discrete nuclear aggregates of unknown function which also contain TP53BP1. Also found in multiple discrete nuclear foci which increase in number following treatment with ionizing radiation or interstrand cross-linking agents. These foci overlap with those formed by the MRN complex (composed of MRE11, RAD50 and NBN) and BRCA1

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**Tissue Location**
Expressed in brain, heart, kidney, liver, pancreas, placenta and skeletal muscle.

## DCLRE1A Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

## DCLRE1A Antibody (Center) Blocking Peptide - Images

## DCLRE1A Antibody (Center) Blocking Peptide - Background

DNA interstrand cross-links prevent strand separation, thereby physically blocking transcription, replication, and segregation of DNA. DCLRE1A is one of several evolutionarily conserved genes involved in repair of interstrand cross-links.

## DCLRE1A Antibody (Center) Blocking Peptide - References

Akhter, S., et al. Biochem. Biophys. Res. Commun. 377(1):236-241(2008)Hemphill, A.W., et al. Mol. Genet. Metab. 94(1):38-45(2008)Hazrati, A., et al. DNA Repair (Amst.) 7(2):230-238(2008)Hejna, J., et al. Nucleic Acids Res. 35(18):6115-6123(2007)