

Product Information

Anti-DCLRE1C antibody produced in chicken, affinity isolated antibody

Catalog Number **GW20005A**

Formerly listed as GenWay Catalog Number 15-288-20005A, Artemis protein Antibody.

Storage Temperature -20 °C

Synonyms: DNA cross-link repair 1C, EC 3.1.-.-;
DNA cross-link repair 1C protein; SNM1-like protein;
A-SCID protein; hSNM1C

Product Description

Required for V(D)J recombination, the process by which exons encoding the antigen-binding domains of immunoglobulins and T-cell receptor proteins are assembled from individual V, (D), and J gene segments. V(D)J recombination is initiated by the lymphoid specific RAG endonuclease complex, which generates site specific DNA double strand breaks (DSBs). These DSBs present two types of DNA end structures: hairpin sealed coding ends and phosphorylated blunt signal ends. These ends are independently repaired by the non homologous end joining (NHEJ) pathway to form coding and signal joints, respectively. This protein exhibits single-strand specific 5'-3' exonuclease activity in isolation and acquires endonucleolytic activity on 5' and 3' hairpins and overhangs when in a complex with PRKDC. The latter activity is required specifically for the resolution of closed hairpins prior to the formation of the coding joint. May also be required for the repair of complex DSBs induced by ionizing radiation, which require substantial end processing prior to religation by NHEJ.

NCBI Accession number: NP_071932.1

Swiss Prot Accession number: Q96SD1

Gene Information: Human .. DCLRE1C (64421)

Immunogen: Recombinant protein DNA cross-link repair 1C

Immunogen Sequence: Gi # 11968041,
sequence 316-577

The product is a clear, colorless solution in phosphate buffered saline, pH 7.2, containing 0.02% sodium azide.

Species Reactivity: Human

Tested Applications: WB

Recommended Dilutions: Recommended starting dilution for Western blot analysis is 1:500, for tissue or cell staining 1:200.

Note: Optimal concentrations and conditions for each application should be determined by the user.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Due to the sodium azide content a material safety data sheet (MSDS) for this product has been sent to the attention of the safety officer of your institution. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

For continuous use, store at 2-8 °C for up to one week. For extended storage, store in -20 °C freezer in working aliquots. Repeated freezing and thawing, or storage in "frostfree" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

KAA,LPG,MAM 08/09-1

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