Product Name: Phospho-Artemis (Ser516) Rabbit

Polyclonal Antibody Catalog #: APRab00839



Summary

Production Name Phospho-Artemis (Ser516) Rabbit Polyclonal Antibody

Description Primary antibody

Host Rabbit

Application WB,IHC-P,ELISA **Reactivity** Human,Mouse

Performance

ConjugationUnconjugatedModificationPhosphorylated

Isotype IgG

Clonality Polyclonal Antibody

Form Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw $\bf Storage$

cycles.

Buffer Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.

Purification Affinity Chromatography

Immunogen

Gene Name DCLRE1C

Alternative Names SCIDA; SNM1C; A-SCID; RS-SCID; DCLREC1C

 Gene ID
 64421

 SwissProt ID
 Q96SD1

Application

Dilution Ratio WB: 1/500-1/1000 IHC: 1/50-1/100 ELISA: 1/10000

Molecular Weight Calculated MW: 78 kDa; Observed MW: 78 kDa

Background

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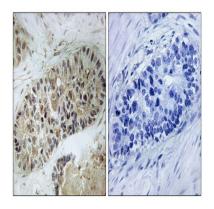


Required for V(D)J recombination, the process by which exons encoding the antigen-binding domains of immunoglobulins and T-cell receptor proteins are assembled from individual V, (D), and J gene segments. V(D)J recombination is initiated by the lymphoid specific RAG endonuclease complex, which generates 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.

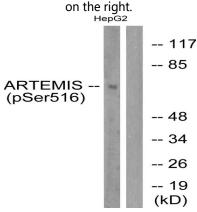
Research Area

Epigenetics and Nuclear Signaling

Image Data



Immunohistochemistry analysis of paraffin-embedded Human lung carcinoma, using Phospho-Artemis (Ser516) antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval. Sample with blocking peptide



Western blot analysis of Phospho-Artemis (Ser516) in HepG2 cells treated with EGF, using Phospho-Artemis (Ser516)

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antibody. The lane on the right is blocked with the Phospho-peptide.

Note

For research use only.

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