

Product Name: Phospho-Artemis (Ser516) Rabbit Polyclonal Antibody**Catalog #: APRab00839**

For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ELISA
Reactivity	Human,Mouse
Conjugation	Unconjugated
Modification	Phosphorylated
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% sodium azide, pH 7.3.
Purification	Affinity Chromatography

Application

Dilution Ratio	WB 1:500-1:1000,IHC 1:50-1:100,ELISA 1:5000-1:20000
Molecular Weight	Calculated MW: 78 kDa; Observed MW: 78 kDa

Antigen Information

Gene Name	DCLRE1C
Alternative Names	SCIDA; SNM1C; A-SCID; RS-SCID; DCLREC1C
Gene ID	64421
SwissProt ID	Q96SD1
Immunogen	The antiserum was produced against synthesized peptide derived from human Artemis around the phosphorylation site of Ser516. AA range:482-531

Background

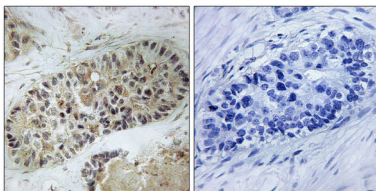
Required for V(D)J recombination, the process by which exons encoding the antigen-binding domains of immunoglobulins and

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.

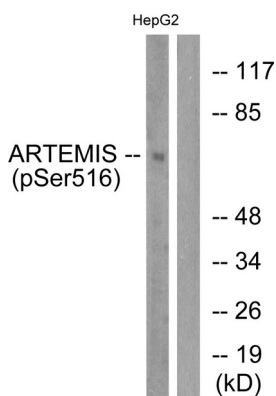
Research Area

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 on the right.



Western blot analysis of Phospho-Artemis (Ser516) in HepG2 cells treated with EGF, using Phospho-Artemis (Ser516) antibody. The lane on the right is blocked with the Phospho- peptide.