

Product Description

Pioneering GTPase and Oncogene Product Development since 2010

PHOSPHO-ARTEMIS (SER516) RABBIT PAB

Cat.#: N225487

Product Name: Anti-Phospho-Artemis (Ser516) Rabbit pAb **Synonyms:** SCIDA; SNM1C; A-SCID; RS-SCID; DCLREC1C

UNIPROT ID: Q96SD1

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.

Immunogen: The antiserum was produced against synthesized peptide derived from human Artemis around the phosphorylation site of Ser516. AA range:482-531

Applications: WB,IHC-P,ELISA

Recommended Dilutions: WB: 1/500-1/1000 IHC: 1/50-1/100 ELISA: 1/10000

Host Species: Rabbit

Clonality: Rabbit Polyclonal

Clone ID: -

MW: Calculated MW: 78 kDa; Observed MW: 78 kDa

Isotype: IgG

Purification: Affinity Chromatography **Species Reactivity:** Human, Mouse

Conjugation: Unconjugated **Modification:** Phosphorylated

Constituents: PBS (without Mg2+ and Ca2+), pH 7.3 containing 50% glycerol, 0.5% BSA and 0.02%

sodium azide

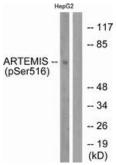
Research Areas: Epigenetics and Nuclear Signaling

Storage & Shipping: Store at -20°C. Avoid repeated freezing and thawing

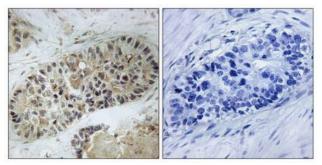


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Western blot analysis of Phospho-Artemis (Ser516) in HepG2 cells treated with EGF, using Phospho-Artemis (Ser516) antibody. The lane on the right is blocked with the Phospho-peptide.



Immunohistochemistry analysis of paraffinembedded Human lung carcinoma, using Phospho-Artemis (Ser516) antibody.Highpressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.Sample with blocking peptide on the right.