

**DATASHEET**

**Artemis (Phospho-S516) Rabbit Polyclonal Antibody**

CAT. NO. APA08188

**KEY FEATURES**

Target	Artemis (Phospho-S516)	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB, IHC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.	Storage	at-20°C

**BACKGROUND**

Nuclease involved in DNA non-homologous end joining (NHEJ); required for double-strand break repair and V(D)J recombination ; required for double-strand break repair and V(D)J recombination . 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 .

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IHC	1:100 - 1:200

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

Description	Rabbit polyclonal antibody to Artemis (Phospho-S516)
Specificity	Recognizes endogenous levels of Artemis protein only when phosphorylated at S516.
Antibody Type	Primary antibody
Immunogen	KLH-conjugated synthetic phosphopeptide corresponding to residues surrounding S516 of human Artemis protein. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 78 kD; Observed: 78 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	ARTEMIS; ASCID; SCIDA; SNM1C; Protein artemis; DNA cross-link repair 1C protein; Protein A-SCID; SNM1 homolog C; hSNM1C; SNM1-like protein
Gene Symbol	DCLRE1C
Entrez Gene	64421(Human); 227525(Mouse); 259171(Rat)
SwissProt	Q96SD1(Human); Q8K4J0(Mouse); Q5XIX3(Rat)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

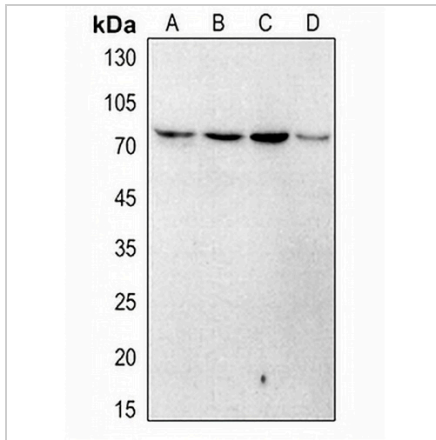
\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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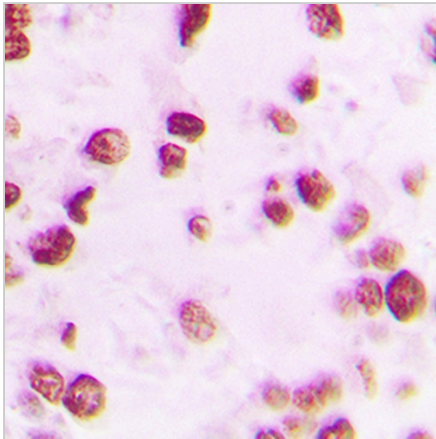
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**DATA**



Western blot analysis of Artemis (Phospho-S516) expression in Hela (A), H446 (B), H1688 (C), mouse lung (D) whole cell lysates. (Predicted band size: 78 kD; Observed band size: 78 kD)



Immunohistochemical analysis of Artemis (Phospho-S516) staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.