

## Artemis (phospho-S516) polyclonal antibody

Catalog: BS4644

Host: Rabbit

Reactivity: Human, Mouse, Rat

### BackGround:

Distinct DNA repair pathways minimize the consequences of mutagenic events. Reactive oxygen species (ROS) are highly reactive atoms with an unpaired electron that are conducive to double-strand DNA breaking events. Artemis, named after the Greek goddess for the protection of children, is one of the major proteins contributing to the preservation of double-strand breaks in DNA by cutting away the damaged parts of the DNA, which allows the strands to rejoin. Artemis is a single-strand-specific 5' to 3' exonuclease that forms a complex with the 469 kDa DNA-dependent protein kinase (DNA-PKcs). DNA-PKcs phosphorylates Artemis, and Artemis acquires endonucleolytic activity on 5' and 3' overhangs and hairpins. These activities are essential for V(D)J recombination and for the 5' and 3' overhang processing in nonhomologous DNA end joining.

### Product:

1mg/ml in PBS with 0.1% Sodium Azide, 50% Glycerol.

### Molecular Weight:

~ 78 kDa

### Swiss-Prot:

Q96SD1

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

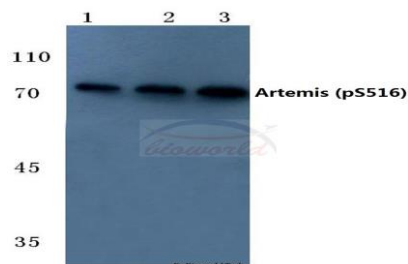
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

p-Artemis (S516) polyclonal antibody detects endogenous levels of Protein artemis only when phosphorylated at Ser516.

### DATA:



Western blot (WB) analysis of p-Artemis (S516) polyclonal antibody at 1:500 dilution

Lane1:HEK293T cell lysate

Lane2:Mouse skeletal muscle tissue lysate

Lane3:Rat skeletal muscle tissue lysate

### Note:

For research use only, not for use in diagnostic procedure.

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