

**ANKLE1 polyclonal antibody**

Catalog: BS35112

Host: Rabbit

Reactivity: Human

BackGround:

Structure-specific endonuclease ANKLE1: Structure-selective DNA endonuclease that specifically cleaves branched DNA . Processes chromatin bridges during cytokinesis by cleaving DNA, both priming TREX1-mediated resolution and directly resolving bridges . Proper processing of chromatin bridges prevents their breakage during cytokinesis, thereby reducing DNA damage, micronuclei formation, and the activation of immune responses such as the cGAS-STING pathway . Acts as a DNA tension sensor that resolves stretched chromatin bridges during cell division by cleaving mechanically stressed and supercoiled DNA . Its activity increases in response to mechanical stress and negative supercoiling, specifically cleaving both strands of negatively supercoiled DNA at higher stretching forces

Product:

1mg/ml in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~66.9 kDa

Swiss-Prot:

Q8NAG6

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000)

Storage&Stability:

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

Specificity:

Recognizes endogenous levels of ANKLE1 protein

DATA:

Immunohistochemical analysis of HER2 staining in human breast carcinoma 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.

Note:

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

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