bs-7416R **[Primary Antibody]**

DNA polymerase delta Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 5425 **SWISS:** P49005

Target: DNA polymerase delta

Immunogen: KLH conjugated synthetic peptide derived from Human DNA polymerase delta: 101-200/469.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: DNA replication, recombination and repair, all of which are necessary for genomic stability, require the presence of exonucleases (1). In DNA replication, these enzymes are involved in the processing of Okazaki fragments, whereas in DNA repair, they function to excise damaged DNA fragments and correct recombinational mismatches (2). These exonucleases include the family of DNA polymerases (3). DNA pol α, β, ∂, and e are involved in DNA replication and repair (4). DNA pol ∂ and DNA pol e are multisubunit enzymes, with DNA pol ∂ consisting of two subunits p125, which interacts with the sliding DNA clamp protein PCNA, and p50 (5). The nuclear-encoded DNA pol © is the only DNA polymerase required for the replication of the mitochondrial DNA (6). DNA pol Ω is ubiquitously expressed in various tissues and mediates the cellular mechanism of damage-induced mutagenesis (7). DNA pol œ is a DNA polymerase-helicase that binds ATP and is involved in the repair of interstrand crosslinks (8).

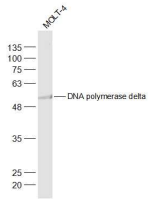
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human, Mouse, Rat (predicted: Rabbit)

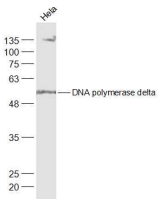
Predicted MW.: 51 kDa

Subcellular Location: Nucleus

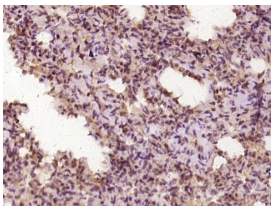
VALIDATION IMAGES



Sample: MOLT-4(Human) Cell Lysate at 30 ug Primary: Anti-DNA polymerase delta (bs-7416R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 51 kD Observed band size: 51 kD



Sample: Hela(Human) Cell Lysate at 30 ug Primary: Anti-DNA polymerase delta (bs-7416R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 51 kD Observed band size: 51 kD



Paraformaldehyde-fixed, paraffin embedded (rat lung tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (POLD2) Polyclonal Antibody, Unconjugated (bs-7416R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.