Bio Academia
Manufacturer

AS ONE

Anti-DNA polymerase δ subunit 3 / p66 antibody, monoclonal (2A1C11)

70-056 100 µg

DNA polymerase δ is one of the three eukaryotic DNA polymerases which are essential for chromosome replication, and is also involved in nucleotide excision repair, base excision repair and VDJ recombination (1, 2). Subunit 3/p66 is a functionally important subunit of human polymerase δ which stabilizes polymerase δ complex and increases the affinity of polymerase δ for PCNA (3).
This product is the IgG fraction purified from serum-free culture medium of mouse hybridoma (2A1C11) by propriety chromatography under mild conditions.

Applications

1) Western blot
2) Immunoprecipitation (Assay dependent)
Other applications have not been tested.

Specification

Antigen: Recombinant human p66 subunit of DNA polymerase δ
Reactivity: Human p66 protein. Not tested with other species
Isotype: IgG2B (kappa)
Form**:** Purified monoclonal antibody (IgG) 1mg/ml in PBS (pH 7.4), 50% glycerol, sterile-filtered, azide free
Storage: Ship at 4°C or at -20°C Aliquot and long term storage at -80°C

Data link

UniProtKB/Swiss-Prot **Q15054** (DPOD3_HUMAN)

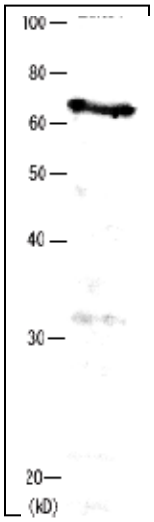

Fig.1 Detection of p66 protein of polymerase by Western blot.

p66 protein in extract of MCF7 cells was detected with antibody 2A1C11 The antiserum was diluted 2000 fold before use.

References This product was used in references 3.

1. Hindges R and Hubscher U “DNA polymerase delta, an essential enzyme for DNA transactions” *Biol Chem* 378: 345-362 (1997) PMID: 9191022
2. Johnson A and O’Donnell M “Cellular DNA replicases: components and dynamics at the replication fork” *Annu Rev Biochem* 74: 283-315 (2005) PMID: 15952889
3. Shikata K *et al* “The human homologue of fission Yeast cdc27, p66, is a component of active human DNA polymerase delta” *J Biochem* 129: 699-708 (2001) PMID: 11328591