

DNA Ligase III Monoclonal Antibody

ORDERING INFORMATION

Catalog No.: 56250 (clone 1F3)

Format: 100ug (1mg/ml) in PBS, pH 7.4. Purified from hybridoma culture supernatant by Protein G affinity chromatography.

BACKGROUND

There are four distinct ligase proteins found in mammalian cells. These DNA ligases are required for joining DNA strand breaks that occur during DNA replication, repair and recombination. DNA Ligase III is a 100kDa (α-form) protein in somatic tissues, is ubiquitously expressed, and complexes with XRCC-1 and a 97kDa (β-form) protein that is found in testis. DNA Ligase III is involved in rejoining DNA single-strand breaks and in base excision repair pathway.

SPECIFICATION SUMMARY

Antigen: Full-length recombinant human DNA Ligase III-b.

Host Species: Mouse

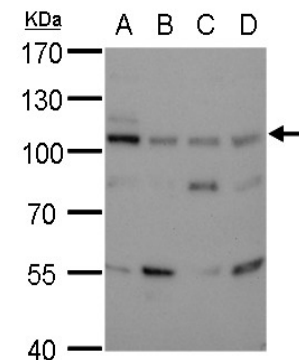
Antibody Class: IgG1

Specificity: This antibody recognizes human, mouse, and chicken DNA Ligase III. Cellular localization is nuclear and mitochondrial.

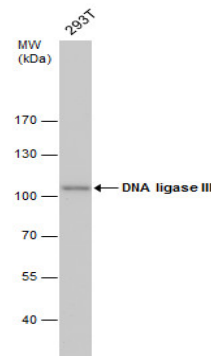
APPLICATIONS

Immunoblotting: use at 0.5-2ug/ml.

Predicted molecular weight ~100kDa.



Detection of DNA Ligase III in 30ug of whole cell lysates of (A) 293T cells, (B) A431 cells, (C) HeLa cells, and (D) HepG2 cells with #56250 at 2ug/ml.



Detection of DNA Ligase III in 30ug of 293T whole cell lysate with #56250 at 2ug/ml.

These are recommended concentrations. Endusers should determine optimal concentrations for their applications.

DILUTION INSTRUCTIONS

Dilute in PBS or medium that is identical to that used in the assay system.

STORAGE AND STABILITY

This antibody is stable for at least one year at -20°C. Store in appropriate aliquots to avoid multiple freeze-thaw cycles.

For in vitro investigational use only. Not intended for diagnostic or therapeutic applications.