

DNL4 Antibody

Catalog No: #34266

Package Size: #34266-1 50ul #34266-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

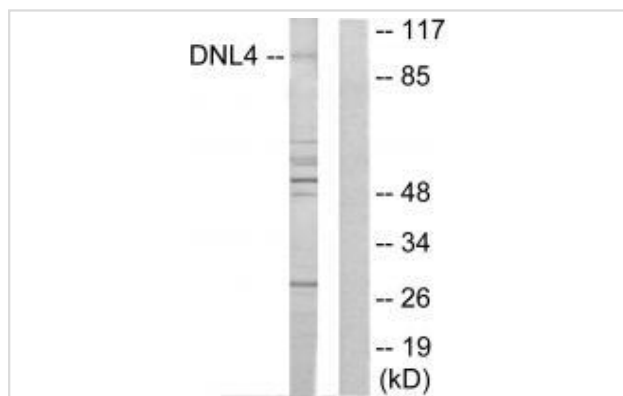
Description

| | |
|-----------------------|--|
| Product Name | DNL4 Antibody |
| Host Species | Rabbit |
| Clonality | Polyclonal |
| Purification | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| Applications | WB |
| Species Reactivity | Hu |
| Specificity | The antibody detects endogenous levels of total DNL4 protein. |
| Immunogen Type | Peptide |
| Immunogen Description | Synthesized peptide derived from internal of human DNL4. |
| Target Name | DNL4 |
| Other Names | DNA ligase 4; EC 6.5.1.1; DNA ligase IV; Polydeoxyribonucleotide synthase [ATP] 4; LIG4 |
| Accession No. | Swiss-Prot: P49917NCBI Gene ID: 3981 |
| Uniprot | P49917 |
| GeneID | 3981; |
| SDS-PAGE MW | 103kd |
| Concentration | 1.0mg/ml |
| Formulation | Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Storage | Store at -20°C |

Application Details

Western blotting: 1:500~1:3000

Images



Western blot analysis of extracts from Jurkat cells, using DNL4 antibody #34266.

Background

Efficiently joins single-strand breaks in a double-stranded polydeoxynucleotide in an ATP-dependent reaction. Involved in DNA non-homologous end joining (NHEJ) required for double-strand break repair and V(D)J recombination. The LIG4-XRCC4 complex is responsible for the NHEJ ligation step, and XRCC4 enhances the joining activity of LIG4. Binding of the LIG4-XRCC4 complex to DNA ends is dependent on the assembly of the DNA-dependent protein kinase complex DNA-PK to these DNA ends.

Wei Y.-F., Mol. Cell. Biol. 15:3206-3216(1995).

Dunham A., Nature 428:522-528(2004).

Robins P., J. Biol. Chem. 271:24257-24261(1996).

Note: This product is for in vitro research use only