

## LIG4

**Reactivity:** Human Mouse Rat

**Tested applications:** WB IHC

**Recommended Dilution:** WB 1:500 - 1:2000 IHC 1:50 - 1:200

**Calculated MW:** 104kDa

**Observed MW:** Refer to Figures

**Immunogen:**

Recombinant protein of human LIG4

**Storage Buffer:**

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Concentration:**

be

**Synonym:**

LIG4;

**Catalog #:** A1743

**Antibody Type:**

Polyclonal Antibody

**Species:** Rabbit

**Gene ID:** 3981

**Isotype:** IgG

**Swiss Prot:** P49917

**Purity:** Affinity purification

For research use only.

**Background:**

Two major pathways, homologous recombination (HR) and nonhomologous end joining (NHEJ), counteract one of the most toxic lesions, the DSB. The core protein complex mediating NHEJ in mammals includes DNA ligase IV (Lig4). Lig4 belongs to an ATP-dependent DNA ligase family, and joins single-strand breaks in a double-stranded polydeoxynucleotide in an ATP-dependent reaction. The complex Lig4-XRCC4 is responsible for the NHEJ ligation step, and XRCC4 enhances the joining activity of Lig4.

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