# **Product Name: XRCC4 Rabbit Polyclonal Antibody**

Catalog #: APRab19974



## **Summary**

Production Name XRCC4 Rabbit Polyclonal Antibody

**Description** Rabbit Polyclonal Antibody

Host Rabbit
Application WB,ELISA

Reactivity Human, Rat, Mouse

## **Performance**

ConjugationUnconjugatedModificationUnmodified

**Isotype** IgG

Clonality Polyclonal Form Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw

cycles.

**Buffer** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

**Purification** Affinity purification

## **Immunogen**

Storage

Gene Name XRCC4

Alternative Names XRCC4; DNA repair protein XRCC4; X-ray repair cross-complementing protein 4

**Gene ID** 7518.0

Q13426.The antiserum was produced against synthesized peptide derived from human

XRCC4. AA range:261-310

## **Application**

**SwissProt ID** 

**Dilution Ratio** WB 1:500 - 1:2000. ELISA: 1:20000

Molecular Weight 40kD

## **Background**

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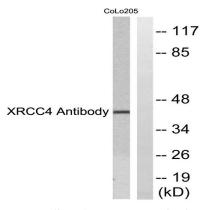


The protein encoded by this gene functions together with DNA ligase IV and the DNA-dependent protein kinase in the repair of DNA double-strand breaks. This protein plays a role in both non-homologous end joining and the completion of V(D)J recombination. Mutations in this gene can cause short stature, microcephaly, and endocrine dysfunction (SSMED). Alternative splicing generates several transcript variants. [provided by RefSeq, Dec 2015], function:Involved in DNA non-homologous end joining (NHEJ) required for double-strand break repair and V(D)J recombination. Binds to DNA and to DNA ligase IV (LIG4). 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.,PTM:Monoubiquitinated.,PTM:Phosphorylated by PRKDC. The phosphorylation seems not to be necessary for binding to DNA. Phosphorylation by CK2 promotes interaction with APTX.,PTM:Sumoylation at Lys-210 is required for nuclear localization and recombination efficiency. Has no effect on ubiquitination.,similarity:Belongs to the XRCC4 family.,subunit:Homodimer and homotetramer in solution. The homodimer associates with LIG4, and the LIG4-XRCC4 complex associates in a DNA-dependent manner with the DNA-PK complex formed by the Ku p70/p86 dimer (G22P1/G22P2) and PRKDC. Seems to interact directly with PRKDC but not with the Ku p70/86 dimer. Interacts with XLF/Cernunnos. Interacts with APTX and APLF., tissue specificity:Widely expressed.,

### **Research Area**

Non-homologous end-joining;

## **Image Data**

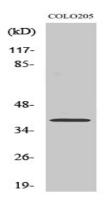


Western blot analysis of lysates from COLO205 cells, using XRCC4 Antibody. The lane on the right is blocked with the synthesized peptide.

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**C** EnkiLife



Western Blot analysis of various cells using XRCC4 Polyclonal Antibody. Secondary antibody was diluted at 1:20000

### Note

For research use only.