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**Product Name: XRCC2 Rabbit Polyclonal Antibody****Catalog #: APRab19972**

For research use only.

**Summary**

<b>Description</b>	Rabbit polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,IHC,ICC/IF,ELISA
<b>Reactivity</b>	Human,Rat,Mouse
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:5000-1:20000
<b>Molecular Weight</b>	32kDa

**Antigen Information**

<b>Gene Name</b>	XRCC2
<b>Alternative Names</b>	XRCC2; DNA repair protein XRCC2; X-ray repair cross-complementing protein 2
<b>Gene ID</b>	7516.0
<b>SwissProt ID</b>	O43543
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human XRCC2. AA range:211-260

**Background**

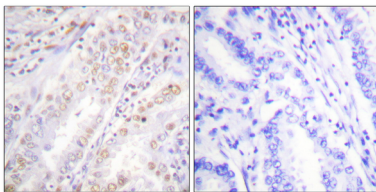
This gene encodes a member of the RecA/Rad51-related protein family that participates in homologous recombination to

maintain chromosome stability and repair DNA damage. This gene is involved in the repair of DNA double-strand breaks by homologous recombination and it functionally complements Chinese hamster *irs1*, a repair-deficient mutant that exhibits hypersensitivity to a number of different DNA-damaging agents. [provided by RefSeq, Jul 2008],function:Involved in the homologous recombination repair (HRR) pathway of double-stranded DNA, thought to repair chromosomal fragmentation, translocations and deletions. The BCDX2 complex binds single-stranded DNA, single-stranded gaps in duplex DNA and specifically to nicks in duplex DNA.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the *recA* family. RAD51 subfamily.,subunit:Interacts with RAD51D. Part of a BCDX2 complex consisting of RAD51B, RAD51C, RAD51D and XRCC2. Part of a complex consisting of RAD51B, RAD51C, RAD51D, XRCC2 and XRCC3. In the absence of DNA, XRCC2-RAD51D formed a multimeric ring structure. In the presence of single-stranded DNA, XRCC2-RAD51D formed a filamentous structure.,

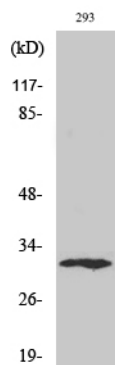
## Research Area

Homologous recombination;

## Image Data



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma, using XRCC2 Antibody. The picture on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using XRCC2 Polyclonal Antibody diluted at 1: 2000. Secondary antibody was diluted at 1:20000.