

# XRCC2 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51616

## Product Information

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<b>Application</b>	WB, IHC-P
<b>Primary Accession</b>	<a href="#">O43543</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	31956

## Additional Information

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<b>Gene ID</b>	7516
<b>Other Names</b>	DNA repair protein XRCC2, X-ray repair cross-complementing protein 2, XRCC2
<b>Dilution</b>	WB~~1:1000 IHC-P~~N/A
<b>Format</b>	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
<b>Storage</b>	Store at -20 °C.Stable for 12 months from date of receipt

## Protein Information

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<b>Name</b>	XRCC2
<b>Function</b>	Involved in the homologous recombination repair (HRR) pathway of double-stranded DNA, thought to repair chromosomal fragmentation, translocations and deletions. Part of the RAD51 paralog protein complex BCDX2 which acts in the BRCA1-BRCA2-dependent HR pathway. Upon DNA damage, BCDX2 acts downstream of BRCA2 recruitment and upstream of RAD51 recruitment. BCDX2 binds predominantly to the intersection of the four duplex arms of the Holliday junction and to junction of replication forks. The BCDX2 complex was originally reported to bind single-stranded DNA, single-stranded gaps in duplex DNA and specifically to nicks in duplex DNA.
<b>Cellular Location</b>	Nucleus. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome

## Background

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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.

## References

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Tambini C.E.,et al.Genomics 41:84-92(1997).

Cartwright R.,et al.Nucleic Acids Res. 26:3084-3089(1998).

Ota T.,et al.Nat. Genet. 36:40-45(2004).

Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.

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