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# XRCC3 antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI14646

## Product Information

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| **Application** | WB |
| **Primary Accession** | O43542 |
| **Other Accession** | NM_005432, NP_005423 |
| **Reactivity** | Human, Rabbit, Dog |
| **Predicted** | Human, Rabbit, Dog |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 37850 |

## Additional Information

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| **Gene ID** | 7517 |
| **Alias Symbol** | CMM6 |
| **Other Names** | DNA repair protein XRCC3, X-ray repair cross-complementing protein 3, XRCC3 |
| **Format** | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. |
| **Reconstitution & Storage** | Add 50 ul of distilled water. Final anti-XRCC3 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles. |
| **Precautions** | XRCC3 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

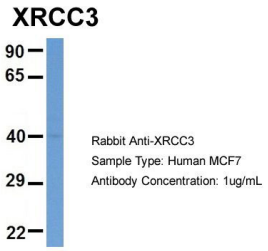
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| **Name** | XRCC3 |
| **Function** | Involved in the homologous recombination repair (HRR) pathway of double-stranded DNA, thought to repair chromosomal fragmentation, translocations and deletions. Part of the RAD51 paralog protein complex CX3 which acts in the BRCA1-BRCA2-dependent HR pathway. Upon DNA damage, CX3 acts downstream of RAD51 recruitment; the complex binds predominantly to the intersection of the four duplex arms of the Holliday junction (HJ) and to junctions of replication forks. Involved in HJ resolution and thus in processing HR intermediates late in the DNA repair process; the function may be linked to the CX3 complex and seems to involve GEN1 during mitotic cell cycle progression. Part of a PALB2-scaffolded HR complex |

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| | containing BRCA2 and RAD51C and which is thought to play a role in DNA repair by HR. Plays a role in regulating mitochondrial DNA copy number under conditions of oxidative stress in the presence of RAD51 and RAD51C. |
| **Cellular Location** | Nucleus. Cytoplasm. Cytoplasm, perinuclear region. Mitochondrion. Note=Accumulates in discrete nuclear foci prior to DNA damage, and these foci persist throughout the time course of DNA repair |

## References


Liu N.,et al.Mol. Cell 1:783-793(1998).
Masson J.Y.,et al.Genes Dev. 15:3296-3307(2001).
Kuschel B.,et al.Hum. Mol. Genet. 11:1399-1407(2002).
Miller K.A.,et al.J. Biol. Chem. 277:8406-8411(2002).
Liu N.,et al.Nucleic Acids Res. 30:1009-1015(2002).


## Images




Host:Rabbit
Target Name:XRCC3
Sample Tissue:Human MCF7
Antibody Dilution: 1.0μg/mlXRCC3 is supported by BioGPS gene expression data to be expressed in MCF7


Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.