

# Recombinant Anti-XRCC3 Rabbit mAb

Catalog # AP95242

## Product Information

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|-------------------|------------------------|
| Application       | WB, FC                 |
| Primary Accession | <a href="#">O43542</a> |
| Reactivity        | Human, Mouse, Rat      |
| Host              | Rabbit                 |
| Clonality         | Monoclonal             |
| Calculated MW     | 37850                  |

## Additional Information

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|--------------------|-------------------------------------------------------------------------------------------------------------------------|
| Gene ID            | 7517                                                                                                                    |
| Other Names        | DNA repair protein XRCC3; X-ray repair cross-complementing protein 3                                                    |
| Target/Specificity | KLH-conjugated synthetic peptide encompassing a sequence within human XRCC3 protein. The exact sequence is proprietary. |
| Dilution           | WB~~WB (1/500 - 1/1000) FC~~1:10~50                                                                                     |
| Format             | Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.                                                   |
| Storage            | Store at -20 °C.Stable for 12 months from date of receipt                                                               |

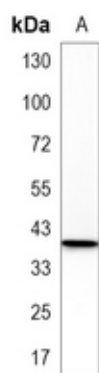
## Protein Information

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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 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.<br>Note=Accumulates in discrete nuclear foci prior to DNA damage, and these foci persist throughout the time course of DNA repair                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## Images

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Western blot analysis of XRCC3 expression in HeLa (A) whole cell lysates. (Predicted band size: 38 kD; Observed band size: 42 kD)

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