

KD-Validated Anti-XRCC3 Mouse Monoclonal Antibody

Mouse monoclonal antibody

Catalog # AGI2088

Product Information

Application	WB
Primary Accession	O43542
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Names	24GB13295
Calculated MW	37850
Gene Name	XRCC3
Aliases	XRCC3; X-Ray Repair Cross Complementing 3; DNA Repair Protein XRCC3; X-Ray Repair Complementing Defective Repair In Chinese Hamster Cells 3; X-Ray Repair Cross-Complementing Protein 3; RAD51-Like; CMM6
Immunogen	Recombinant protein of human XRCC3

Additional Information

Gene ID	7517
Other Names	DNA repair protein XRCC3, X-ray repair cross-complementing protein 3, XRCC3

Protein Information

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

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