

KD-Validated Anti-XRCC3 Mouse Monoclonal Antibody
Mouse monoclonal antibody
Catalog # AGI2088**Specification****KD-Validated Anti-XRCC3 Mouse Monoclonal Antibody - Product Information**

Application	WB
Primary Accession	O43542
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	Predicted, 38 kDa, observed, 38 kDa
Gene Name	KDa 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

KD-Validated Anti-XRCC3 Mouse Monoclonal Antibody - Additional Information

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

KD-Validated Anti-XRCC3 Mouse Monoclonal Antibody - 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

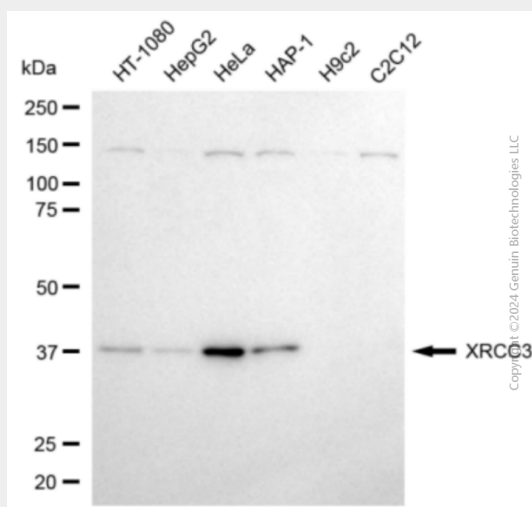
Nucleus. Cytoplasm. Cytoplasm, perinuclear region. Mitochondrion. Note=Accumulates in discrete nuclear foci prior to DNA damage, and these foci persist throughout the time course of DNA repair

KD-Validated Anti-XRCC3 Mouse Monoclonal Antibody - Protocols

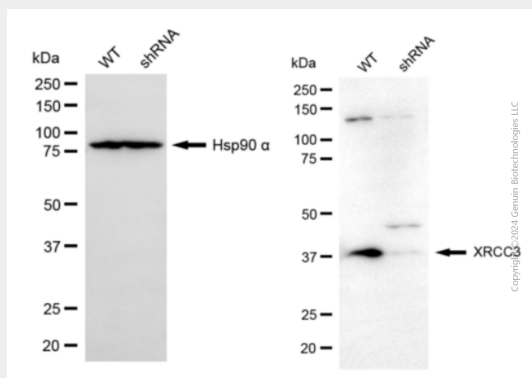
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KD-Validated Anti-XRCC3 Mouse Monoclonal Antibody - Images



Western blotting analysis using anti-XRCC3 antibody (Cat#64858). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-XRCC3 antibody (Cat#64858, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (Cat#101, 1:20,000) respectively. Image was developed using FeQ™ ECL Substrate Kit (Cat#226).



Western blotting analysis using anti-XRCC3 antibody (Cat#64858). XRCC3 expression in wild-type (WT) and XRCC3 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-XRCC3 antibody (Cat#64858, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (Cat#101, 1:20,000) respectively. Image was developed using FeQ™ ECL Substrate Kit (Cat#226).