

XRCC2 Antibody(N-term) Blocking peptide
Synthetic peptide
Catalog # BP19368a**Specification**

XRCC2 Antibody(N-term) Blocking peptide - Product InformationPrimary Accession [O43543](#)**XRCC2 Antibody(N-term) Blocking peptide - Additional Information****Gene ID** 7516**Other Names**

DNA repair protein XRCC2, X-ray repair cross-complementing protein 2, XRCC2

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

XRCC2 Antibody(N-term) Blocking peptide - Protein Information**Name** XRCC2**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 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.

Cellular Location

Nucleus. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome

XRCC2 Antibody(N-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

XRCC2 Antibody(N-term) Blocking peptide - Images**XRCC2 Antibody(N-term) Blocking peptide - Background**

This gene encodes a member of the RecA/Rad51-related protein family that participates in homologous recombination to maintain chromosome stability and repair DNA damage. This gene is involved in the repair of DNA double-strand breaks by homologous recombination and it functionally complements Chinese hamster *irs1*, a repair-deficient mutant that exhibits hypersensitivity to a number of different DNA-damaging agents.

XRCC2 Antibody(N-term) Blocking peptide - References

Liu, Y., et al. Carcinogenesis 31(10):1762-1769(2010) Briggs, F.B., et al. Am. J. Epidemiol. 172(2):217-224(2010) Liu, C.Y., et al. Carcinogenesis 31(7):1259-1263(2010) Monsees, G.M., et al. Breast Cancer Res. Treat. (2010) In press : Lipkin, S.M., et al. Cancer Prev Res (Phila) 3(5):597-603(2010)