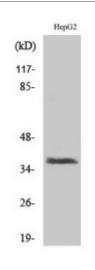
Anti-XRCC3 antibody





Description Rabbit polyclonal to XRCC3.

Model STJ96284

Host Rabbit

Reactivity Human

Applications ELISA, IHC, WB

Immunogen Synthesized peptide derived from human XRCC3

Immunogen Region 10-90 aa, Internal

Gene ID <u>7517</u>

Gene Symbol XRCC3

Dilution range WB 1:500-1:2000IHC 1:100-1:300ELISA 1:10000

Specificity XRCC3 Polyclonal Antibody detects endogenous levels of XRCC3 protein.

Purification The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Note For Research Use Only (RUO).

Protein Name DNA repair protein XRCC3 X-ray repair cross-complementing protein 3

Molecular Weight 38 kDa

Clonality Polyclonal

Conjugation Unconjugated

Isotype IgG

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Concentration 1 mg/ml

Storage Instruction Store at -20°C, and avoid repeat freeze-thaw cycles.

Database Links <u>HGNC:12830OMIM:114480</u>

Alternative Names DNA repair protein XRCC3 X-ray repair cross-complementing protein 3

Function Involved in the homologous recombination repair (HRR) pathway of double-

stranded DNA, thought to repair chromosomal fragmentation, translocations and deletions. Part of the RAD21 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 Localization Nucleus. Cytoplasm. Cytoplasm, perinuclear region. Mitochondrion.

Accumulates in discrete nuclear foci prior to DNA damage, and these foci

persist throughout the time course of DNA repair.

St John's Laboratory Ltd

F +44 (0)207 681 2580

T +44 (0)208 223 3081

W http://www.stjohnslabs.com/ E info@stjohnslabs.com