

Anti-XRCC1 Antibody (5W492)

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 100/70 kDa.
Clone:	5W492
Purification:	ProA affinity purified

Applications

Application:	IHC,WB
Recommended	WB: 1:500-2000; IHC: 1:50-200

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein
Uniprot ID:	P18887
Synonyms:	DNA repair protein XRCC1;X ray repair cross complementing protein 1;X ray repair, complementing defective, repair in Chinese hamster;X ray repair complementing defective repair in chinese hamster;XRCC 1;XRCC1_HUMAN;X ray repair cross-complementing protein 1;X ray Repair Complementing Defective Repair in Chinese Hamster Cells;X ray repair complementing defective repair in chinese hamster cells 1;RCC;X ray repair cross complementing 1

Research Background

The x-ray repair cross-complementing (XRCC) proteins are responsible for efficiently repairing and maintaining genetic stability following DNA base damage. These genes share sequence similarity with the yeast DNA repair protein Rad5. XRCC1 is a protein that facilitates the DNA base excision repair pathway by interacting with DNA ligase III and DNA polymerase to repair DNA single-strand breaks. XRCC2 and XRCC3 are both involved in maintaining chromosome stability during cell division. XRCC2 is required for efficient repair of DNA double-strand breaks by homologous recombination between sister chromatids, and XRCC3 interacts directly with Rad51 to cooperate with Rad51 during recombinational repair. XRCC4 is an accessory factor of DNA ligase IV that preferentially binds DNA with nicks or broken ends. XRCC4 binds to DNA ligase IV and enhances its joining activity, and it is also involved in V(D)J recombination. Any defect in one of the known components of the DNA repair/V(D)J recombination machinery (Ku-70, Ku-80, DNA-PKCS, XRCC4 and DNA ligase IV) leads to abortion of the V(D)J rearrangement process and early block in both T and B cell maturation.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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