

XRCC1 polyclonal antibody

Catalog: BS91459

Host: Rabbit

Reactivity: Human, Mouse, Rat

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.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

100/70 kDa

Swiss-Prot:

P18887(Human) Q60596(Mouse) Q9ESZ0 (Rat)

Purification&Purity:

ProA affinity purified

Applications:

WB:1:500-1:2,000

IHC:1:50-1:200

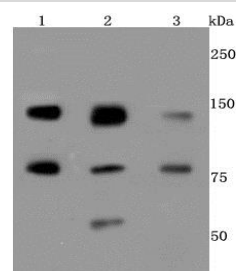
Storage&Stability:

Store at +4 °C after thawing. Aliquot store at -20 °C or -80 °C. Avoid repeated freeze / thaw cycles.

Specificity:

XRCC1 polyclonal antibody detects endogenous levels of XRCC1 protein.

DATA:

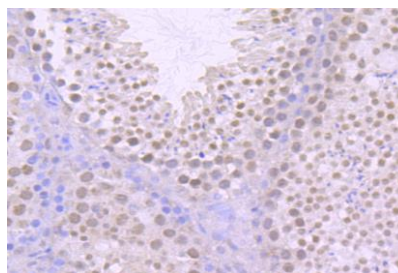


Western blot analysis of XRCC1 on different cells lysates using anti-XRCC1 antibody at 1/500 dilution. Positive control:

Line 1: HeLa

Line 2: 293T

Line 3: Jarkat



Immunohistochemical analysis of paraffin-embedded mouse testis tissue using anti-XRCC1 antibody. Counter stained with hematoxylin.

Note:

For research use only, not for use in diagnostic procedure.

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