
anti-XRCC4

Cat #: HM1397
Rabbit polyclonal IgG
0.2 µg/µl, store at 4 °C

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APPLICATIONS

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 XRCC4. XRCC1 is a 70 kDa 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 XRCC4 to cooperate with XRCC4 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.

SPECIFICITY

This antibody specifically recognizes XRCC4 of human, mouse and rat origin.

The antibody can be used in Western blotting, immunoprecipitation and immunostaining.

IMMUNOGEN

A synthetic peptide derived from C-terminal region of human XRCC4

STORAGE

This antibody is stable for 12 months when stored at 2-8°C.

REFERENCES

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