

Anti-XRCC3 [10F1/6] Bulk Size Ab01310-1.6-BT

This is a Fab fragment with a his-tag. Developed in partnership with Ximbio (www.ximbio.com).

This reformatted mouse antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Mouse Fab fragment, His-Tagged, Kappa

Clone Number: 10F1/6

Alternative Name(s) of Target: X-Ray Repair Cross Complementing 3; X-ray repair cross-complementing protein 3; DNA repair protein XRCC3; X-ray repair complementing defective repair in Chinese hamster cells 3; CMM6; 10F1

UniProt Accession Number of Target Protein: O43542

Published Application(s): ICC/IF, WB

Published Species Reactivity: Human

Immunogen: This antibody was raised by immunising mice with the denaturated recombinant human XRCC3-His6 protein which had been purified from 2.4 liters of E. coli FB810 recA– pLysS carrying pXRCC3-28c.

Specificity: This antibody is specific for XRCC3 and does not cross-react with Rad51B, Rad51C, Rad51D, Rad51, or XRCC2 in Western blot analysis. XRCC3 is a protein involved in the homologous recombination repair (HRR) pathway in chromosomal fragmentations and deletions.

Application Notes: WB: XRCC3 10F1/6 antibody was used to visualise XRCC3 on Western blots in multiple experiments (e.g. after previous gel filtration of infected pf9 cells; after immunoprecipitation with different antibodies and others) in a study on the RAD51 paralogs' complexes and their role in genetic recombination (Masson et al., 2001). WB: Sage et al. (2010) used this antibody to visualise XRCC3 protein on Western blots from lysates of HCT116 cells in the experiments demonstrating engagement of Rad51 proteins in mtDNA maintenance. ICC/IF: XRCC3 protein was immunostained with XRCC3 10F1/6 antibody in HEK293 cells (some of the cells had been subjected to the ionising radiation) in an experiment investigating the exact role of XRCC3 in homologous recombination (Forget et al., 2004).

Antibody First Published in: Masson et al. Complex formation by the human RAD51C and XRCC3 recombination repair proteins. Proc Natl Acad Sci U S A. 2001 Jul 17;98(15):8440-6. [PMID:11459987](#)

Note on publication: This article describes the detailed generation of this anti-XRCC3 antibody as well as successfully applies it in Western analysis.

Product Form

Size: 500 µg Purified antibody in bulk size.

Purification: Purified by Immobilized Metal Affinity Chromatography

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.