

Anti-Rad51 [3C10] Bulk Size Ab01312-1.6-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: 3C10

Alternative Name(s) of Target: DNA repair protein RAD51 homolog 1; HsRAD51; hRAD51; RAD51 homolog A; BRCC5; HsT16930; RAD51 homolog; homolog of RecA, E. coli; RecA-like protein; RAD51ABRCA1/BRCA2-containing complex, subunit 5; Ab1; Ab-1; Rad51 Ab1; 51RAD01

UniProt Accession Number of Target Protein: Q06609

Published Application(s): IP, WB, IF, IHC

Published Species Reactivity: Cow, Pig, Human

Immunogen: This antibody was raised against the recombinant human RAD51 protein.

Specificity: This antibody recognises RAD51 (and might also recognise hDmc1 (Masson et al., 1999)). RAD51 is a eukaryotic homologue of E. coli RecA. It is an important part of the homologous recombination DNA repair pathway during the homologous strand exchange stage.

Application Notes: WB: Anti-Rad51 3C10 antibody was used to visualise Rad51 via Western blot after previous immunoprecipitation with different antibodies in experiments analysing the interactions between Rad51 and DMC1 (Masson et al., 1999). IF: 3C10 antibody was used to visualise Rad51 on chromatin in endopolyploid tumour cells in experiments investigating the role of another protein - REC8 in chromosome segregation after radiation (Erenpreisa et al., 2009). IHC: This antibody was also used to immunohistochemically stain biopsy and resected specimens of esophagus and squamous cell carcinoma of the esophagus (Nakanoko et al., 2014).

Antibody First Published in: Masson et al. The meiosis-specific recombinase hDmc1 forms ring structures and interacts with hRad51. EMBO J. 1999 Nov 15;18(22):6552-60. [PMID:10562567](https://pubmed.ncbi.nlm.nih.gov/10562567/)

Note on publication: This article describes the experiments for which anti-Rad51 3C10 antibody was created. It was used to visualise Rad51 via Western blot after previous immunoprecipitation with different antibodies.

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.