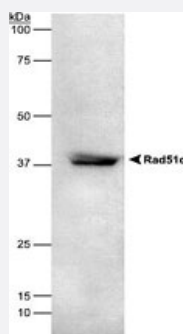


RAD51C monoclonal antibody, clone 2H11/6

Catalog # MAB2387 Size 100 uL

Applications



Western Blot (Cell lysate)

RAD51C detected in HEK293 lysate using RAD51C monoclonal antibody, clone 2H11/6 (Cat # MAB2387). Photo courtesy of B.T. Bennett & K. Knight, University of Massachusetts Medical School.

Specification

Product Description Mouse monoclonal antibody raised against recombinant RAD51C.

Immunogen Recombinant His fusion protein corresponding to human RAD51C.

Host Mouse

Reactivity Human, Mouse

Specificity This antibody is specific to Rad51C.

Form Liquid

Isotype IgG1, kappa

Quality Control Testing Antibody Reactive Against Recombinant Protein.

Recommend Usage Western Blot (1:1000)
The optimal working dilution should be determined by the end user.

Storage Buffer In PBS (0.02% sodium azide)

Storage Instruction Store at 4°C. Do not freeze.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

RAD51C detected in HEK293 lysate using RAD51C monoclonal antibody, clone 2H11/6 (Cat # MAB2387). Photo courtesy of B.T. Bennett & K. Knight, University of Massachusetts Medical School.

Gene Info — RAD51C

Entrez GeneID [5889](#)

Gene Name RAD51C

Gene Alias MGC104277, RAD51L2

Gene Description RAD51 homolog C (S. cerevisiae)

Omim ID [602774](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene is a member of the RAD51 family of related genes, which encode strand-transfer proteins thought to be involved in recombinational repair of damaged DNA and in meiotic recombination. This gene product interacts with two other DNA repair proteins, encoded by RAD51B and XRCC3, but not with itself. The protein copurifies with XRCC3 protein in a complex, reflecting their endogenous association and suggesting a cooperative role during recombinational repair. This gene is one of four localized to a region of chromosome 17q23 where amplification occurs frequently in breast tumors. Overexpression of the four genes during amplification has been observed and suggests a possible role in tumor progression. Alternative splicing has been observed for this gene and two variants encoding different isoforms have been identified. [provided by RefSeq]

Other Designations DNA repair protein RAD51 homolog 3|RAD51 homolog C|RAD51 homolog C, isoform 1|yeast RAD51 homolog 3

Publication Reference

- [Dysfunctional homologous recombination mediates genomic instability and progression in myeloma.](#)

Shammas MA, Shmookler Reis RJ, Koley H, Batchu RB, Li C, Munshi NC.

Blood 2008 Dec; 113(10):2290.

- [Chronic hypoxia decreases synthesis of homologous recombination proteins to offset chemoresistance and radioresistance.](#)

Chan N, Koritzinsky M, Zhao H, Bindra R, Glazer PM, Powell S, Belmaaza A, Wouters B, Bristow RG.

Cancer Research 2008 Jan; 68(2):605.

- [RAD51C deficiency in mice results in early prophase I arrest in males and sister chromatid separation at metaphase II in females.](#)

Kuznetsov S, Pellegrini M, Shuda K, Fernandez-Capetillo O, Liu Y, Martin BK, Burkett S, Southon E, Pati D, Tessarollo L, West SC, Donovan PJ, Nussenzweig A, Sharan SK.

The Journal of Cell Biology 2007 Feb; 176(5):581.

Application: IF, WB-Ce, Mouse, MEFs, Mouse spermatocytes

- [Defective DNA strand break repair after DNA damage in prostate cancer cells: implications for genetic instability and prostate cancer progression.](#)

Fan R, Kumaravel TS, Jalali F, Marrano P, Squire JA, Bristow RG.

Cancer Research 2004 Dec; 64(23):8526.

Application: IHC, Human, Mouse, DU-145 cells, Mouse tumors, PC-3 cells

- [Autoantibodies in sera of pancreatic cancer patients identify recombination factor Rad51 as a tumour-associated antigen.](#)

Maacke H, Hundertmark C, Miska S, Voss M, Kalthoff H, Sturzbecher HW.

Journal of Cancer Research and Clinical Oncology 2002 Apr; 128(4):219.

Pathway

- [Homologous recombination](#)

Disease

- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Multiple Sclerosis](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)

- [Urinary Bladder Neoplasms](#)