

Anti-Rad51C antibody ab3669

[2 References](#) [画像数 1](#)

製品の概要

製品名	Anti-Rad51C antibody
製品の詳細	Goat polyclonal to Rad51C
由来種	Goat
特異性	This antibody is expected to recognise all three human isoforms.
アプリケーション	適用あり: WB
種交差性	交差種: Human
免疫原	Synthetic peptide: RGKTRFEMQRDL , corresponding to N terminal amino acids 2-14 of Human Rad51C. Run BLAST with Run BLAST with
ポジティブ・コントロール	HeLa lysate.
特記事項	Principal Names – RAD51C; RAD51L2; RAD51 homolog C (S. cerevisiae); yeast RAD51 homolog 3; DNA repair protein RAD51 homolog 3 Official Gene Symbol - RAD51C GenBank Accession Number – NP_002867; NP_478123; NP_478124 LocusLink ID - 5889 (human) Gene Ontology terms - adenosinetriphosphatase activity; DNA binding activity; DNA repair; DNA recombination; nucleus. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
バッファー	pH: 7.30 Preservative: 0.02% Sodium azide

	Constituents: 0.5% Tris, 0.5% BSA
特記事項 (精製)	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
ポリモノ	ポリクローナル
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab3669の使用に適用されます**
 アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		Use a concentration of 1 - 3 µg/ml. Detects a band of approximately 45 kDa (predicted molecular weight: 43 kDa). 1 hour primary incubation is recommended for this product.

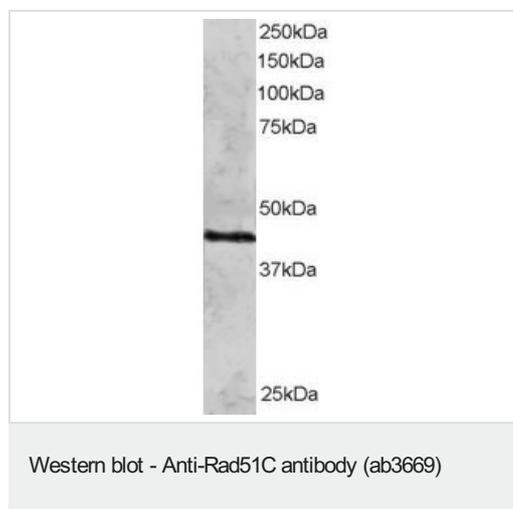
ターゲット情報

機能	Essential for the homologous recombination (HR) pathway of DNA repair. Involved in the homologous recombination repair (HRR) pathway of double-stranded DNA breaks arising during DNA replication or induced by DNA-damaging agents. The RAD51B-RAD51C dimer exhibits single-stranded DNA-dependent ATPase activity. The BCDX2 complex binds single-stranded DNA, single-stranded gaps in duplex DNA and specifically to nicks in duplex DNA. Participates in branch migration and Holliday junction resolution and thus is important for processing HR intermediates late in the DNA repair process. Also has an early function in DNA repair in facilitating phosphorylation of the checkpoint kinase CHK2 and thereby transduction of the damage signal, leading to cell cycle arrest and HR activation. Protects RAD51 from ubiquitin-mediated degradation that is enhanced following DNA damage. Plays a role in regulating mitochondrial DNA copy number under conditions of oxidative stress in the presence of RAD51 and XRCC3. Contributes to DNA cross-link resistance, sister chromatid cohesion and genomic stability. Involved in maintaining centrosome number in mitosis.
組織特異性	Expressed in a variety of tissues, with highest expression in testis, heart muscle, spleen and prostate.
関連疾患	Defects in RAD51C are the cause of Fanconi anemia complementation group O (FANCO) [MIM:613390]. It is a disorder affecting all bone marrow elements and resulting in anemia, leukopenia and thrombopenia. It is associated with cardiac, renal and limb malformations, dermal pigmentary changes, and a predisposition to the development of malignancies. At the cellular level it is associated with hypersensitivity to DNA-damaging agents, chromosomal instability (increased chromosome breakage) and defective DNA repair. Defects in RAD51C are the cause of breast-ovarian cancer familial type 3 (BROVCA3) [MIM:613399]. It is a condition associated with familial predisposition to cancer of the breast and ovaries. Characteristic features in affected families are an early age of onset of breast cancer (often before age 50), increased chance of bilateral cancers (cancer that develop in both breasts, or both ovaries, independently), frequent occurrence of breast cancer among men, increased incidence of tumors of other specific organs, such as the prostate.
配列類似性	Belongs to the RecA family. RAD51 subfamily.

細胞内局在

Nucleus. Cytoplasm. Cytoplasm > perinuclear region. Mitochondrion. DNA damage induces an increase in nuclear levels. Accumulates in DNA damage induced nuclear foci or RAD51C foci which is formed during the S or G2 phase of cell cycle. Accumulation at DNA lesions requires the presence of NBN/NBS1, ATM and RPA.

画像



ab3669 staining (2 μ g/ml) of HeLa lysate (RIPA buffer, 30 μ g total protein per lane). Primary incubated for 12 hours. Detected by western blot using chemiluminescence. ab3669 staining (2 μ g/ml) of HeLa lysate (RIPA buffer, 30 μ g total protein per lane). Primary incubated for 12 hours. Detected by western blot using chemiluminescence.

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