

Datasheet for ABIN6146636  
**anti-RAD51 antibody (AA 50-150)**[Go to Product page](#)

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## Overview

Quantity:	100 µL
Target:	RAD51
Binding Specificity:	AA 50-150
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RAD51 antibody is un-conjugated
Application:	Western Blotting (WB)

## Product Details

Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 50-150 of human Rad51 (NP_002866.2).
Sequence:	EAVAYAPKKE LINIKGISEA KADKILAEAA KLVPMGFTTA TEFHQRRSEI IQITTGSKEL DKLLQGGIET GSITEMFGEF RTGKTQICHT LAVTCQLPID R
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

## Target Details

Target:	RAD51
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## Target Details

Alternative Name:	RAD51 ( <a href="#">RAD51 Products</a> )
Background:	<p>The protein encoded by this gene is a member of the RAD51 protein family. RAD51 family members are highly similar to bacterial RecA and <i>Saccharomyces cerevisiae</i> Rad51, and are known to be involved in the homologous recombination and repair of DNA. This protein can interact with the ssDNA-binding protein RPA and RAD52, and it is thought to play roles in homologous pairing and strand transfer of DNA. This protein is also found to interact with BRCA1 and BRCA2, which may be important for the cellular response to DNA damage. BRCA2 is shown to regulate both the intracellular localization and DNA-binding ability of this protein. Loss of these controls following BRCA2 inactivation may be a key event leading to genomic instability and tumorigenesis. Multiple transcript variants encoding different isoforms have been found for this</p> <p>gene.,RAD51,BRCC5,FANCR,HRAD51,HsRad51,HsT16930,MRMV2,RAD51A,RECA,Epigenetics &amp; Nuclear Signaling,DNA Damage &amp; Repair,Cell Biology &amp; Developmental Biology,Cell Cycle,G2/M DNA Damage Checkpoint,RAD51</p>
Molecular Weight:	26 kDa/31 kDa/36 kDa
Gene ID:	5888
UniProt:	<a href="#">Q06609</a>
Pathways:	<a href="#">DNA Damage Repair</a>

## Application Details

Application Notes:	WB,1:500 - 1:1000
Comment:	HIGH QUALITY
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

## Handling

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

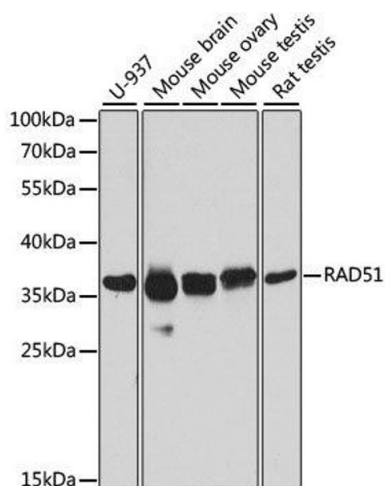
## Publications

Product cited in: Wang, Sun, Zhu, Sun, Ma, Wang, Lu, Chen, Xu: "Quantitative proteomic analysis revealed changes in protein synthesis and mitochondrial functions after acute DNA damage in mouse neural stem cells." in: **Neuroscience letters**, Vol. 653, pp. 355-361, (2018) ([PubMed](#)).

Li, Zhang, Chen, Guo, Zhang, Tang, Xu, Zhang, Tao, Wang, Jiang, Sun, Mao: "Impaired DNA double-strand break repair contributes to the age-associated rise of genomic instability in humans." in: **Cell death and differentiation**, Vol. 23, Issue 11, pp. 1765-1777, (2017) ([PubMed](#)).

Zhang, Tang, Jiang, Mao: "The transcription factor GATA3 is required for homologous recombination repair by regulating CtIP expression." in: **Oncogene**, Vol. 36, Issue 36, pp. 5168-5176, (2017) ([PubMed](#)).

## Images



### Western Blotting

**Image 1.** Western blot analysis of extracts of various cell lines, using RAD51 antibody.