

Datasheet for ABIN4913431  
**anti-RAD51 antibody (AA 81-180)****3** Images**2** Publications[Go to Product page](#)

## Overview

Quantity:	100 µL
Target:	RAD51
Binding Specificity:	AA 81-180
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RAD51 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro))

## Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Rad51
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Cow,Pig,Horse,Rabbit
Purification:	Purified by Protein A.

## Target Details

Target:	RAD51
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### Target Details

Alternative Name:	Rad51 ( <a href="#">RAD51 Products</a> )
Background:	<p>Synonyms: RECA, BRCC5, FANCR, MRMV2, HRAD51, RAD51A, HsRad51, HsT16930, DNA repair protein RAD51 homolog 1, RAD51 homolog A, RAD51</p> <p>Background: Participates in a common DNA damage response pathway associated with the activation of homologous recombination and double-strand break repair. Binds to single and double-stranded DNA and exhibits DNA-dependent ATPase activity. Underwinds duplex DNA and forms helical nucleoprotein filaments. Part of a PALB2-scaffolded HR complex containing BRCA2 and RAD51C and which is thought to play a role in DNA repair by HR. Plays a role in regulating mitochondrial DNA copy number under conditions of oxidative stress in the presence of RAD51C and XRCC3.</p>
Gene ID:	5888
UniProt:	<a href="#">Q06609</a>
Pathways:	<a href="#">DNA Damage Repair</a>

### Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200 ICC 1:100-500
Restrictions:	For Research Use only

### Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

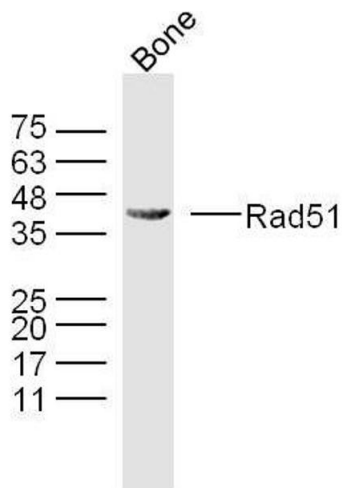
## Handling

Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

## Publications

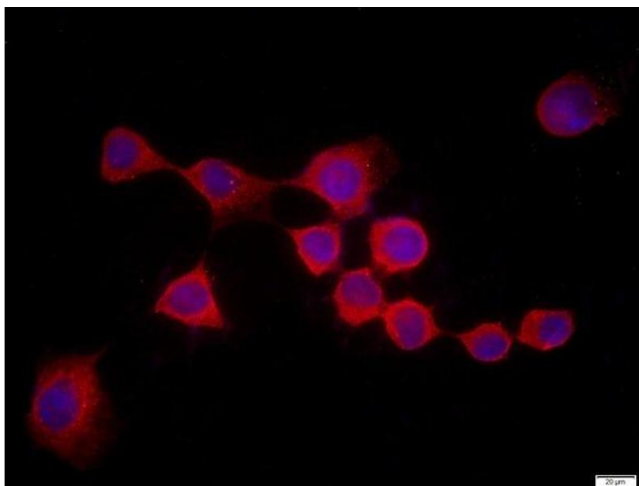
Product cited in: Qi, Jiang, Wang, Yang, Li, He, Yu: "Sensitization of tamoxifen-resistant breast cancer cells by Z-ligustilide through inhibiting autophagy and accumulating DNA damages." in: **Oncotarget**, Vol. 8, Issue 17, pp. 29300-29317, (2018) ([PubMed](#)).

## Images



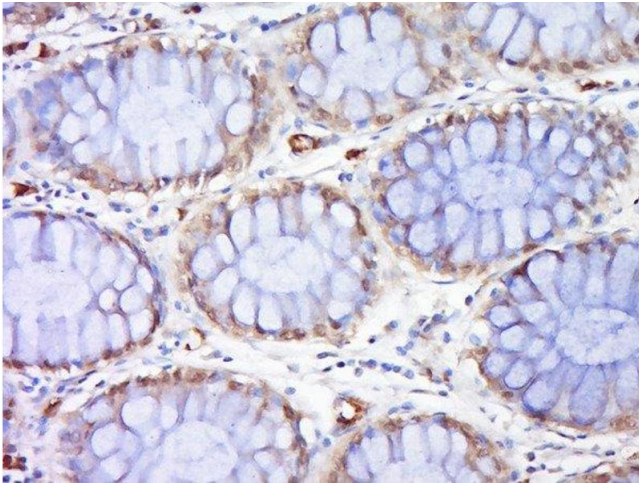
### Western Blotting

**Image 1.** Mouse bone lysates probed with Rad51 Polyclonal Antibody, Unconjugated at 1:300 overnight at 4°C. Followed by a conjugated secondary antibody -HRP) at 1:5000 for 90 min at 37°C.



### Immunofluorescence (Cultured Cells)

**Image 2.** HEK 293 stained with Rad51 Polyclonal Antibody, Unconjugated at 1:500 in PBS and incubated for one hour at room temperature, followed by secondary antibody incubation, DAPI staining of the nuclei and detection.



#### Immunohistochemistry (Paraffin-embedded Sections)

**Image 3.** Paraformaldehyde-fixed, paraffin embedded human colon cancer, Antigen retrieval by boiling in sodium citrate buffer (pH6) for 15min, Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes, Blocking buffer (BSA or normal goat serum) at 37°C for 20min, Antibody incubation with Rad51 Polyclonal Antibody, Unconjugated at 1:200 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.