

For Research Use Only

# RAD51AP1 Polyclonal antibody

Catalog Number: 11255-1-AP

Featured Product

10 Publications



## Basic Information

**Catalog Number:**

11255-1-AP

**Size:**

550 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG1781

**GenBank Accession Number:**

BC016330

**GeneID (NCBI):**

10635

**UNIPROT ID:**

Q96B01

**Full Name:**

RAD51 associated protein 1

**Calculated MW:**

38 kDa

**Observed MW:**

38 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:1000-1:4000

IF 1:50-1:500

## Applications

**Tested Applications:**

IF/ICC, WB, ELISA

**Cited Applications:**

WB, IF, CHIP

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse

**Positive Controls:**

WB : HeLa cells, human brain tissue, mouse liver tissue, rat liver tissue, Raji cells

IF : HeLa cells,

## Background Information

Homologous recombination (HR) is an important pathway for the elimination of DNA double-strand breaks (DSBs) and other deleterious lesions from chromosomes. The eukaryotic HR reaction is mediated by RAD51 [PMID:12456786]. RAD51AP1 (RAD51 associated protein 1), so named because it can interact with human RAD51, is a vertebrate-specific protein that enhances the ability of RAD51 to mediate the D-loop reaction. RAD51AP1 knockdown by siRNA leads to cellular sensitivity to DNA damaging agents and elevated DNA damage-induced chromatid breaks. Enhancement of the RAD51 recombinase activity by RAD51AP1 is contingent upon physical interaction of the two HR factors [PMID:17996710,17996711].

## Notable Publications

Author	Pubmed ID	Journal	Application
Tribhuvan Yadav	36265486	Mol Cell	WB
Renwang Liu	36468013	Front Genet	WB
Jian Ouyang	33981036	Nature	WB,IF

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

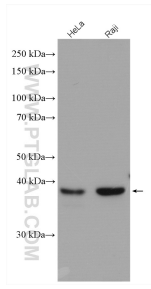
T: 4006900926

E: Proteintech-CN@ptglab.com

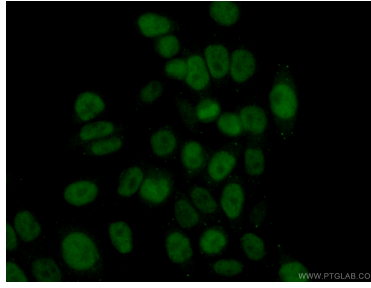
W: ptgcn.com

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 11255-1-AP (RAD51AP1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 11255-1-AP (RAD51AP1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).