

For Research Use Only

RAD51AP1 Polyclonal antibody

Catalog Number: 11255-1-AP

Featured Product

9 Publications



Basic Information

Catalog Number: 11255-1-AP	GenBank Accession Number: BC016330	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 550 µg/ml by Nanodrop and 333 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 10635	Recommended Dilutions: WB 1:1000-1:4000 IF 1:50-1:500
Source: Rabbit	UNIPROT ID: Q96B01	
Isotype: IgG	Full Name: RAD51 associated protein 1	
Immunogen Catalog Number: AG1781	Calculated MW: 38 kDa	
	Observed MW: 38 kDa	

Applications

Tested Applications: WB, IF, ELISA	Positive Controls:
Cited Applications: WB, IF, CHIP	WB: HeLa cells, human brain tissue, mouse liver tissue, rat liver tissue, Raji cells
Species Specificity: human, mouse, rat	IF: HeLa cells,
Cited Species: human, mouse	

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

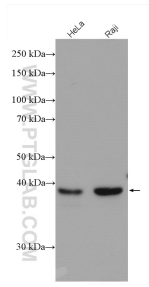
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

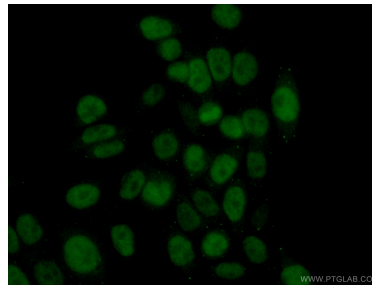
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

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).