

For Research Use Only

# RAD51AP1 Monoclonal antibody

Catalog Number: 68560-1-Ig



## Basic Information

<b>Catalog Number:</b> 68560-1-Ig	<b>GenBank Accession Number:</b> BC016330	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 10635	<b>CloneNo.:</b> 2D8B1
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q96B01	<b>Recommended Dilutions:</b> WB 1:2000-1:10000
<b>Isotype:</b> IgG1	<b>Full Name:</b> RAD51 associated protein 1	
<b>Immunogen Catalog Number:</b> AG28385	<b>Calculated MW:</b> 38 kDa	
	<b>Observed MW:</b> 38-40 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : HeLa cells, SW480 cells, NCCIT cells, Daudi cells, HaCaT cells, Jurkat cells, K-562 cells, NIH/3T3 cells, 4T1 cells
<b>Species Specificity:</b> 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 the physical interaction of the two HR factors [PMID:17996710,17996711].

## Storage

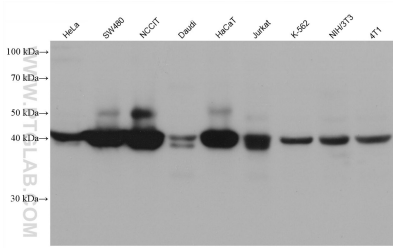
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 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](mailto:proteintech@ptglab.com)  
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# Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68560-1-Ig (RAD51AP1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.