

RAD51AP1 Monoclonal antibody

Catalog Number: 68560-1-Ig

Basic Information

Catalog Number:

68560-1-Ig

Concentration:

1000 ug/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG28385

GenBank Accession Number:

BC016330

GeneID (NCBI):

10635

UNIPROT ID:

Q96B01

Full Name:

RAD51 associated protein 1

Calculated MW:

38 kDa

Observed MW:

38-40 kDa

Purification Method:

Protein A purification

CloneNo.:

2D8B1

Recommended Dilutions:

WB 1:2000-1:10000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, mouse

Positive Controls:

WB : HeLa cells, SW480 cells, NCCIT cells, Daudi cells, HaCaT cells, Jurkat cells, K-562 cells, NIH/3T3 cells, 4T1 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 the physical interaction of the two HR factors [PMID:17996710,17996711].

Storage

Storage:

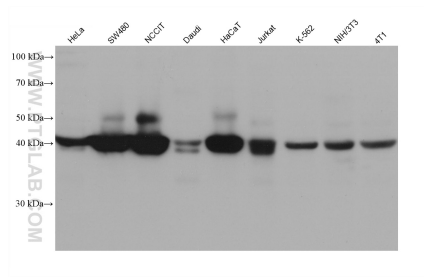
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

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

Aliquoting is unnecessary for -20°C storage

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.