

RAD50 Recombinant antibody

Catalog Number: 84969-4-RR

Basic Information

Catalog Number: 84969-4-RR	GenBank Accession Number: NM_005732	Purification Method: Protein A purification
Concentration: 1000 µg/ml	GeneID (NCBI): 10111	CloneNo.: 242541A5
Source: Rabbit	UNIPROT ID: Q92878	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:1000-1:4000
Isotype: IgG	Full Name: RAD50 homolog (S. cerevisiae)	
Immunogen Catalog Number: AG29949	Calculated MW: 154 kDa Observed MW: 154 kDa	

Applications

Tested Applications:

WB, IHC, ELISA

Species Specificity:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : K-562 cells, MCF-7 cells, Jurkat cells, MOLT-4 cells, C6 cells

IHC : human placenta tissue, human stomach cancer tissue, mouse brain tissue, mouse lung tissue, mouse stomach tissue, rat brain tissue, rat lung tissue, rat stomach tissue

Background Information

RAD50 belongs to the ABC-ATPase protein family that concurs in forming the Nucleotide Binding Domain (NBD). ATP binding to Rad50 induces a conformational change that dramatically increases the Rad50 NBD affinity for itself, allowing for its dimerization (PMID: 37569756). The Mre11-Rad50 (MR) complex has key functions in the detection, signaling and repair of DNA breaks (PMID: 35501303).

Storage

Storage:

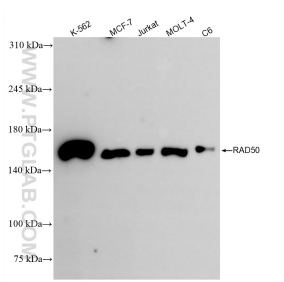
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

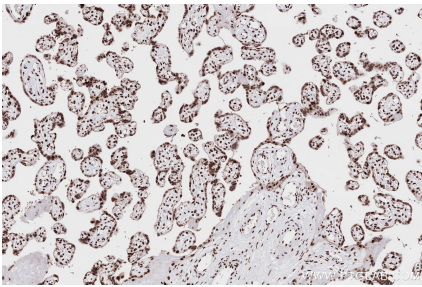
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

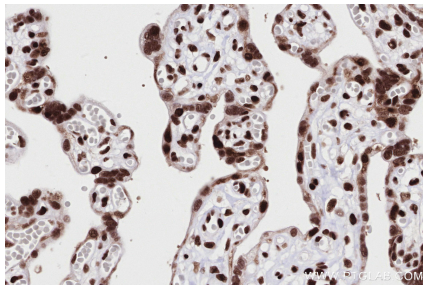
Selected Validation Data



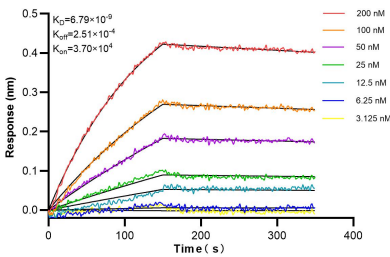
Various lysates were subjected to SDS PAGE followed by western blot with 84969-4-RR (RAD50 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 84969-4-RR (RAD50 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 84969-4-RR (RAD50 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 84969-4-RR against Human RAD50 were performed. The affinity constant is 6.79 nM.