

For Research Use Only

# RAD18 Polyclonal antibody

Catalog Number: 18333-1-AP

Featured Product

12 Publications



## Basic Information

### Catalog Number:

18333-1-AP

### Size:

150ul, Concentration: 300 ug/ml by Nanodrop and 300 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG12944

### GenBank Accession Number:

BC001302

### GeneID (NCBI):

56852

### UNIPROT ID:

Q9NS91

### Full Name:

RAD18 homolog (S. cerevisiae)

### Calculated MW:

56 kDa

### Observed MW:

75 kDa, 85 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

**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:** A549 cells, HeLa cells, K-562 cells, MCF-7 cells, HEK-293T cells

**IP:** K-562 cells,

**IHC:** human ovary cancer tissue,

## Background Information

RAD18(E3 ubiquitin-protein ligase RAD18) is also named as RNF73, HHR18 and belongs to the RAD18 family. It is involved in postreplication repair of UV-damaged DNA. RAD18 protein is detected in human cells as two major bands at 75 and 85 kDa by Western blot. The bands are identified as nonubiquitinated and monoubiquitinated forms of Rad18, respectively(PMID: 15509568). Monoubiquitinated RAD18 is detected mainly in the cytoplasm, whereas nonubiquitinated RAD18 is detected predominantly in the nuclei(PMID:15509568). This antibody is specific to RAD18.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xi Zeng	35313791	Bioengineered	WB,IHC,IF
Lu Lin-Yu LY	23812044	Nat Commun	IF
Yunshang Chen	35115490	Cell Death Dis	WB,IHC

## Storage

### Storage:

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

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

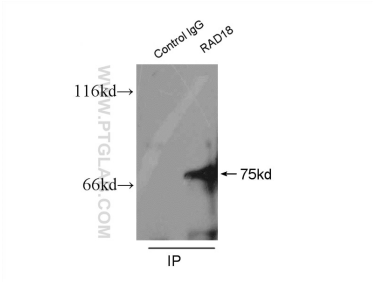
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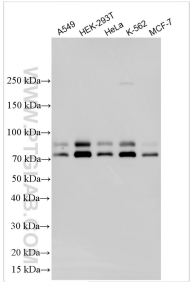
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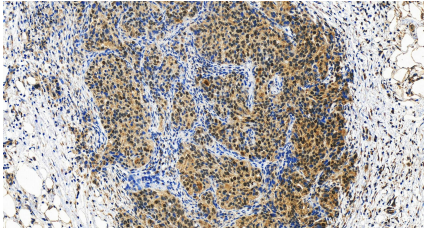
Selected Validation Data



IP result of anti-RAD18 (IP:18333-1-AP, 3ug; Detection:18333-1-AP 1:300) with K-562 cells lysate 2000ug.



Various lysates were subjected to SDS PAGE followed by western blot with 18333-1-AP (RAD18 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 18333-1-AP (RAD18 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).