

For Research Use Only

# RARA Polyclonal antibody

Catalog Number: 10331-1-AP

10 Publications



## Basic Information

### Catalog Number:

10331-1-AP

### Size:

150ul, Concentration: 450 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG0420

### GenBank Accession Number:

BC008727

### GeneID (NCBI):

5914

### UNIPROT ID:

P10276

### Full Name:

retinoic acid receptor, alpha

### Calculated MW:

51 kDa

### Observed MW:

50-60 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

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, CoIP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

### Positive Controls:

WB : K-562 cells, MCF-7 cells

IP : HeLa cells,

IHC : human breast cancer tissue, human testis tissue, human colon cancer tissue

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

## Background Information

Retinoic acid receptors (RARs) function as nuclear receptors that control gene expression in response to binding of the ligand retinoic acid (RA). Retinoic acid receptor alpha (RARα), also known as NR1B1 (nuclear receptor subfamily 1, group B, member 1), plays an essential role in the regulation of retinoic acid-induced germ cell development during spermatogenesis. Formation of a complex with histone deacetylases might lead to inhibition of RARE DNA element binding and to transcriptional repression (PubMed:28167758). Transcriptional activation and RARE DNA element binding might be supported by the transcription factor KLF2 (PubMed:28167758).

## Notable Publications

Author	Pubmed ID	Journal	Application
Shyi-Jang Shin	33065162	Metabolism	WB,IHC
Zhen Yu	35278669	Cell Signal	WB
Lu Wang	36482192	Br J Cancer	WB

## 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

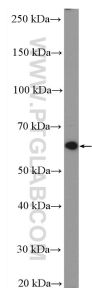
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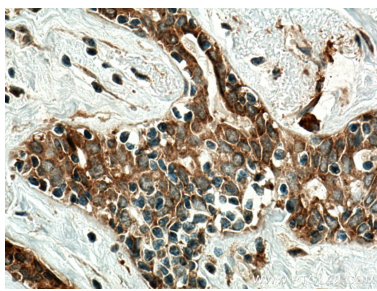
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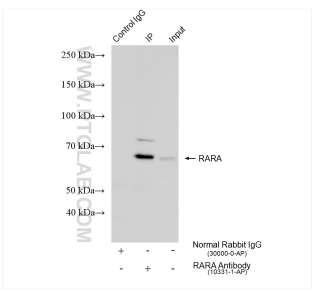
Selected Validation Data



K-562 cells were subjected to SDS PAGE followed by western blot with 10331-1-AP (RARA antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 10331-1-AP (RARA antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-RARA (IP:10331-1-AP, 4ug; Detection:10331-1-AP 1:2000) with HeLa cells lysate 1760 ug.