

For Research Use Only

# CRABP1 Polyclonal antibody

Catalog Number: 12588-1-AP

6 Publications



## Basic Information

### Catalog Number:

12588-1-AP

### Size:

150ul, Concentration: 700 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG3291

### GenBank Accession Number:

BC022069

### GeneID (NCBI):

1381

### UNIPROT ID:

P29762

### Full Name:

cellular retinoic acid binding protein 1

### Calculated MW:

137 aa, 15 kDa

### Observed MW:

15 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:200-1:1000

IHC 1:500-1:2000

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB, IF, IHC

### Species Specificity:

human, mouse, rat

### Cited Species:

human, chicken, mouse, rabbit

**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 : mouse embryo tissue, human spleen tissue, Transfected HEK-293 cells

IHC : human lung cancer tissue,

## Background Information

The cellular retinoic acid-binding proteins including CRABP1 and CRABP2 bind retinoic acid (RA), an important regulator of cell growth and differentiation, thus play an important role in RA-mediated differentiation and proliferation processes. It has been reported that CRABP1 influences the biological effects of RA in cell-selective manners by enhancing the physiological function of RA in keratinocytes or inhibiting RA-induced differentiation of neuroblastoma cells.

## Notable Publications

Author	Pubmed ID	Journal	Application
Ying Zhu	31682227	Elife	IF
Xiaofei Niu	35764970	Virol J	WB
Marie Kubota	33472062	Cell Rep	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

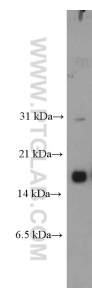
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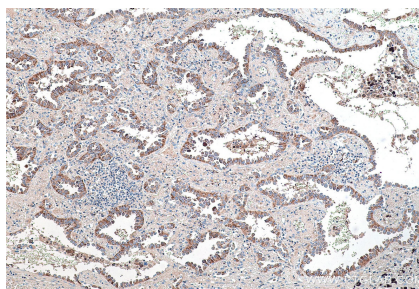
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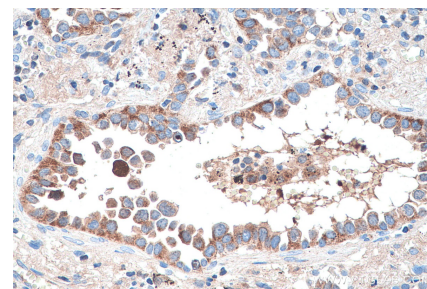
## Selected Validation Data



mouse embryo tissue were subjected to SDS PAGE followed by western blot with 12588-1-AP (CRABP1 Antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 12588-1-AP (CRABP1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 12588-1-AP (CRABP1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).