

For Research Use Only

# CYP4F12 Polyclonal antibody

Catalog Number: 13243-1-AP

1 Publications



## Basic Information

### Catalog Number:

13243-1-AP

### Size:

150ul, Concentration: 110 ug/ml by Nanodrop and 73 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG3957

### GenBank Accession Number:

BC035350

### GeneID (NCBI):

66002

### UNIPROT ID:

Q9HCS2

### Full Name:

cytochrome P450, family 4, subfamily F, polypeptide 12

### Calculated MW:

524 aa, 60 kDa

### Observed MW:

50-60 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:8000

IHC 1:400-1:1600

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB

### Species Specificity:

human, mouse, rat

### Cited Species:

human

**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 liver tissue, human placenta tissue, rat liver tissue

**IHC** : human stomach cancer tissue, human small intestine tissue

## Background Information

CYP4F12(Cytochrome P450 4F12) Catalyzes leukotriene B4 omega-hydroxylation and arachidonic acid omega-hydroxylation but with an activity much lower than that of CYP4F2. It expresses a band of 60kDa in adult and fetal liver, kidney, placenta at term, seminal vesicles, and the prostate gland(PMID:15078342). And it can be phosphorylated in vivo(PMID:18828626).

## Notable Publications

Author	Pubmed ID	Journal	Application
Wenming Jia	37414830	Sci 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, pH7.3

Aliquoting is unnecessary for -20°C storage

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

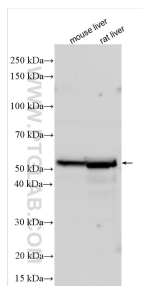
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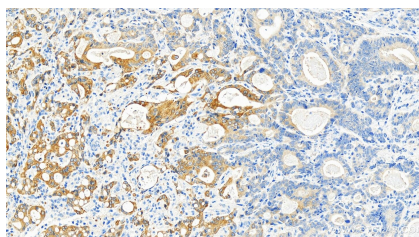
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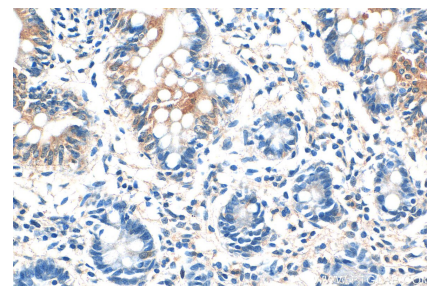
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 13243-1-AP (CYP4F12 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 13243-1-AP (CYP4F12 antibody) at dilution of 1:800 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human small intestine tissue slide using 13243-1-AP (CYP4F12 antibody) at dilution of 1:500 (under 40x lens).