

For Research Use Only

# FUCA2 Polyclonal antibody

Catalog Number: 15157-1-AP

1 Publications



## Basic Information

### Catalog Number:

15157-1-AP

### Size:

150ul , Concentration: 650 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG7250

### GenBank Accession Number:

BC003060

### GeneID (NCBI):

2519

### UNIPROT ID:

Q9BTY2

### Full Name:

fucosidase, alpha-L- 2, plasma

### Calculated MW:

54 kDa

### Observed MW:

54-60 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 1:20-1:200

## Applications

### Tested Applications:

WB, IP, IHC, ELISA

### Cited Applications:

WB

### 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** : human heart tissue, mouse stomach tissue, rat stomach tissue

**IP** : mouse heart tissue,

**IHC** : human liver tissue, human hepatocirrhosis tissue, human placenta tissue

## Background Information

Alpha-L-fucosidase 2 (FUCA2) is a gene that codes for a secreted non-lysosomal enzyme and belongs to the glycosyl hydrolase 29 (GH29) family. The enzyme is responsible for the removal of the alpha-1,6-fucose linked to N-acetylglucosamine residue of glycoproteins. Serum FUCA2 is a potential biomarker used for early detection of esophageal squamous cell carcinoma (ESCC) and hepatocellular carcinoma (HCC). FUCA2 has 2 isoforms with the molecular mass of 20 and 54 kDa (PMID: 34935631). Sometimes higher molecular weight around 60 kDa can also be observed, which may be a modified variant of FUCA2.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xiaoqiong Wei	38253565	Nat Commun	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

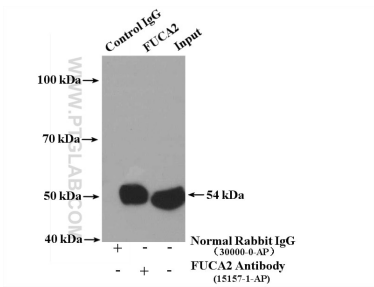
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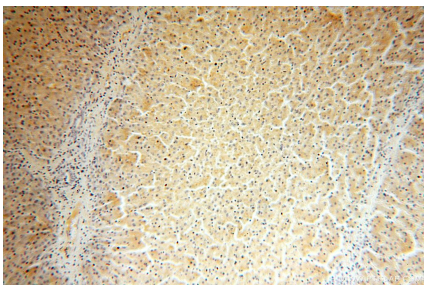
Selected Validation Data



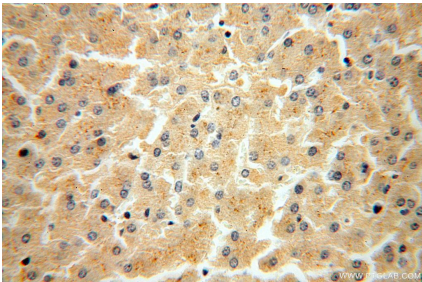
IP result of anti-FUCA2 (IP:15157-1-AP, 4ug; Detection:15157-1-AP 1:300) with mouse heart tissue lysate 4000 ug.



human heart tissue were subjected to SDS PAGE followed by western blot with 15157-1-AP (FUCA2 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver using 15157-1-AP (FUCA2 antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver using 15157-1-AP (FUCA2 antibody) at dilution of 1:100 (under 40x lens).