

For Research Use Only

# FUCA2 Polyclonal antibody

Catalog Number: 30080-1-AP



## Basic Information

<b>Catalog Number:</b> 30080-1-AP	<b>GenBank Accession Number:</b> BC003060	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 400 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 2519	<b>Recommended Dilutions:</b> WB 1:1000-1:4000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9BTY2	<b>IHC 1:50-1:500</b>
<b>Isotype:</b> IgG	<b>Full Name:</b> fucosidase, alpha-L- 2, plasma	<b>IF/ICC 1:200-1:800</b>
<b>Immunogen Catalog Number:</b> AG32467	<b>Calculated MW:</b> 54 kDa	
	<b>Observed MW:</b> 54-60 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> Human	<b>WB :</b> SGC-7901 cells,
<b>Note-IHC:</b> suggested antigen retrieval with <b>TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	<b>IHC :</b> human stomach cancer tissue,
	<b>IF/ICC :</b> HepG2 cells,

## 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.

## Storage

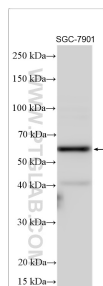
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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

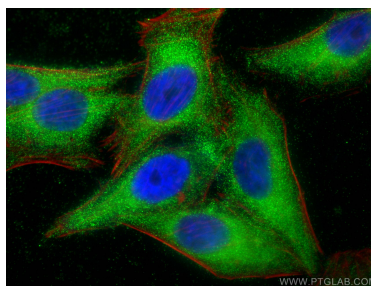
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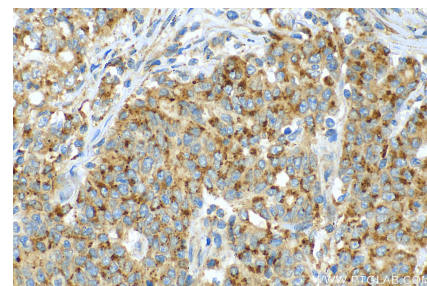
## Selected Validation Data



SGC-7901 cells were subjected to SDS PAGE followed by western blot with 30080-1-AP (FUCA2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using FUCA2 antibody (30080-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 30080-1-AP (FUCA2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).