

For Research Use Only

# FUCA1 Monoclonal antibody

Catalog Number: 67251-1-Ig



## Basic Information

<b>Catalog Number:</b> 67251-1-Ig	<b>GenBank Accession Number:</b> BC017338	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 2100 µg/ml	<b>GeneID (NCBI):</b> 2517	<b>CloneNo.:</b> 1G5C5
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P04066	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IHC 1:250-1:1000 IF 1:200-1:800
<b>Isotype:</b> IgG2b	<b>Full Name:</b> fucosidase, alpha-L- 1, tissue	
<b>Immunogen Catalog Number:</b> AG9638	<b>Calculated MW:</b> 461 aa, 53 kDa	
	<b>Observed MW:</b> 50-56 kDa	

## Applications

### Tested Applications:

IF-P, IHC, WB, ELISA

### Species Specificity:

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** : HepG2 cells, HEK-293 cells, K-562 cells, NIH/3T3 cells

**IHC** : human liver cancer tissue,

**IF** : human liver cancer tissue,

## Background Information

FUCA1(α-L-Fucosidase) is a lysosomal glycosidase which is ubiquitous in eukaryotic cells. This enzyme is usually found as a soluble component of the lysosome and functions as an acid hydrolase in the degradation of numerous and diverse fucoglycoconjugates. The mammalian α-L-fucosidases are relatively large, multisubunit glycoproteins which exist in multiple molecular isoforms. This enzyme may have a role in sperm-egg interactions in the reproductive tract of the female rat. There is a precursor 54 kDa form of rat sperm fucosidase which is processed to a mature 52 kDa form of the enzyme (PMID:8836125). This protein from rat epididymis is a tetramer of 210-220 kDa, made up by two pairs of subunits of 47 and 60 kDa, and the one from human seminal plasma exists in different oligomeric forms, that is, as a dimer, as a tetramer, and as a hexamer made up of a single subunit of 56-57 kDa (PMID:16736526).

## Storage

### Storage:

Store at -20°C.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

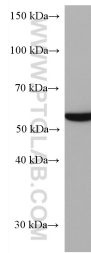
T: 4006900926

E: Proteintech-CN@ptglab.com

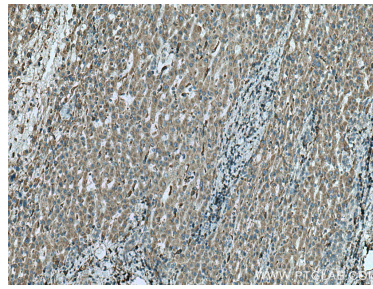
W: ptgcn.com

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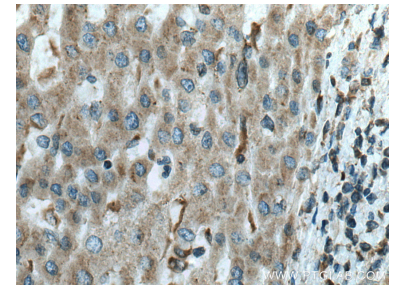
## Selected Validation Data



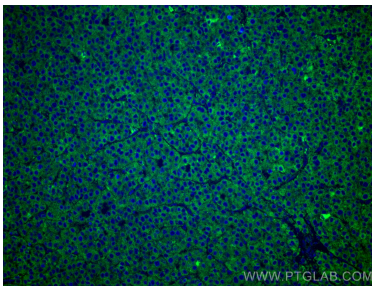
HepG2 cells were subjected to SDS PAGE followed by western blot with 67251-1-Ig (FUCA1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



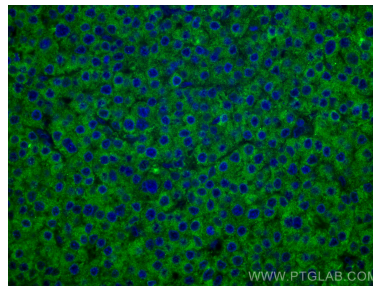
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 67251-1-Ig (FUCA1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 67251-1-Ig (FUCA1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human liver cancer tissue using FUCA1 antibody (67251-1-Ig, Clone: 1G5C5) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed human liver cancer tissue using FUCA1 antibody (67251-1-Ig, Clone: 1G5C5) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).