For Research Use Only

FUCA1 Monoclonal antibody

Catalog Number:67251-1-Ig 1 Publications

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Basic Information

Catalog Number:
67251-1-Ig

Size:
150ul , Concentration: 2100 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG2b

Immunogen Catalog Number:
AG9638

GenBank Accession Number:
BC017338

GeneID (NCBI):
2517

UNIPROT ID:
P04066

Full Name:
fucosidase, alpha-L- 1, tissue

Calculated MW:
461 aa, 53 kDa

Observed MW:
50-56 kDa

Purification Method:
Protein A purification

CloneNo.:
1G5C5

Recommended Dilutions:
WB 1:2000-1:10000
IHC 1:250-1:1000
IF-P 1:200-1:800
IF/ICC 1:200-1:800

Applications

Tested Applications:
WB, IHC, IF/ICC, IF-P, ELISA

Cited Applications:
IF

Species Specificity:
human, mouse

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

IHC : human liver cancer tissue,

IF-P : human liver cancer tissue,

IF/ICC : HepG2 cells,

Background Information

FUCA1(a-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 a-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).

Notable Publications

Author	Pubmed ID	Journal	Application
Chunmei Wen	39888412	J Gastroenterol	IF

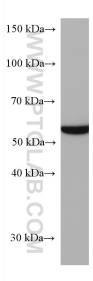
Storage

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

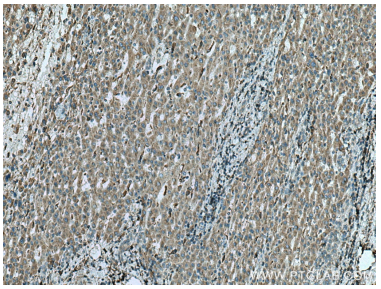
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

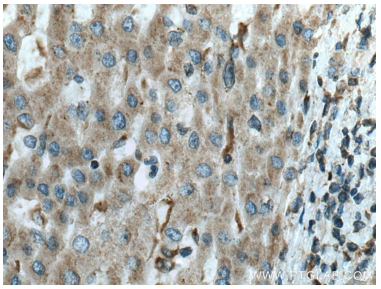
Selected Validation Data



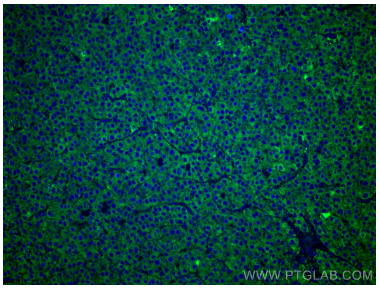
HepG2 cells were subjected to SDS PAGE followed by western blot with 67251-1-Ig (FUCA1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



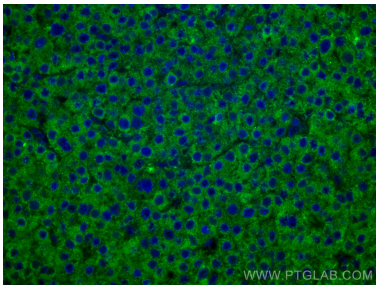
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 67251-1-Ig (FUCA1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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 Goat Anti-Mouse IgG(H+L).



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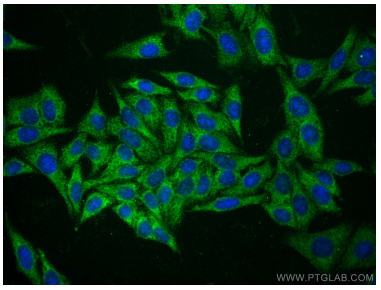

Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using FUCA1 antibody (67251-1-Ig, Clone: 1G5C5) at dilution of 1:400 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002).