FUCA1 Polyclonal ANTIBODY

Catalog Number: 16420-1-AP

Basic Information

Catalog Number: 16420-1-AP
Size: 22 μg/150 μl
Source: Rabbit
Isotype: IgG
Purification Method: Antigen affinity purification
Immunogen Catalog Number: AG9612
GenBank Accession Number: BC017338
GeneID (NCBI): 2517
Calculated MW: 451aa, 53 kDa
Observed MW: 54 kDa
Recommended Dilutions:
WB: 1:500-1:1000
IHC: 1:20-1:200

Applications

Tested Applications: IHC, WB, ELISA
Cited Applications: IHC, WB
Species Specificity: human, mouse, rat
Cited Species: human

Applications

Note: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

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, multienzyme 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

<table>
<thead>
<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
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</thead>
<tbody>
<tr>
<td>Giancarlo Vecchio</td>
<td>28404918</td>
<td>Oncotarget</td>
<td>WB, IHC</td>
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<td>Serena Bonin</td>
<td>25632039</td>
<td>Oncotarget</td>
<td>WB, IHC</td>
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<td>Kalliopi I Pappa</td>
<td>29109100</td>
<td>Cancer Genomics Proteomics</td>
<td>WB</td>
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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.

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

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Selected Validation Data

Immunohistochemical of paraffin-embedded human liver using 16420-1-AP (FUCA1 antibody) at dilution of 1:50 (under 10x lens)

mouse liver tissue were subjected to SDS-PAGE followed by western blot with 16420-1-AP (FUCA1 Antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours