

For Research Use Only

# FUCA1 Polyclonal antibody

Catalog Number: 16420-1-AP **8 Publications**



## Basic Information

<b>Catalog Number:</b> 16420-1-AP	<b>GenBank Accession Number:</b> BC017338	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 350 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 2517	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P04066	
<b>Isotype:</b> IgG	<b>Full Name:</b> fucosidase, alpha-L- 1, tissue	
<b>Immunogen Catalog Number:</b> AG9612	<b>Calculated MW:</b> 461 aa, 53 kDa	
	<b>Observed MW:</b> 50-56 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b> WB : mouse liver tissue, COLO 320 cells IHC : human testis tissue, human liver cancer tissue
<b>Cited Applications:</b> WB, IHC	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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
Giancarlo Vecchio	28404918	Oncotarget	WB,IHC
Serena Bonin	29632639	Oncotarget	WB,IHC
Shoko Ishida	30729618	Pathol Int	IHC

## Storage

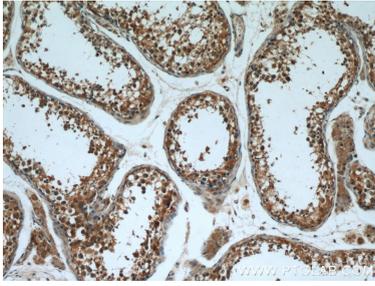
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

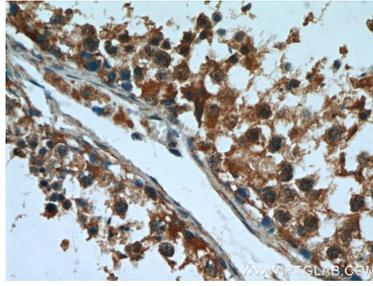
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

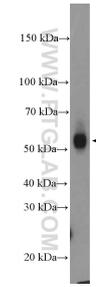
## Selected Validation Data



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



Immunohistochemical analysis of paraffin-embedded human testis using 16420-1-AP (FUCA1 antibody) at dilution of 1:50 (under 40x lens).



mouse liver tissue were subjected to SDS PAGE followed by western blot with 16420-1-AP (FUCA1 Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.