

For Research Use Only

Alpha Galactosidase A Polyclonal antibody

Catalog Number: 15428-1-AP

Featured Product

2 Publications



Basic Information

Catalog Number:

15428-1-AP

Size:

150ul, Concentration: 450 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG7609

GenBank Accession Number:

BC002689

GeneID (NCBI):

2717

UNIPROT ID:

P06280

Full Name:

galactosidase, alpha

Calculated MW:

49 kDa

Observed MW:

46-50 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:3000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:250-1:1000

Applications

Tested Applications:

WB, IP, IHC, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human, rat

Cited Species:

human

Positive Controls:

WB : MCF-7 cells, HEK-293 cells, HeLa cells

IP : HEK-293 cells,

IHC : human liver cancer tissue, human liver tissue, mouse liver tissue

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

Background Information

GLA (Alpha-galactosidase A), also named as Melibiase or Agalsidase, belongs to the glycosyl hydrolase 27 family. It catalyzes the hydrolysis of terminal, non-reducing alpha-D-galactose residues in alpha-D-galactosides, including galactose oligosaccharides, galactomannans and galactolipids. The deficient activity of GLA can cause Fabry disease which is an X-linked inborn error of glycosphingolipid metabolism (PMID: 19287194). Enzyme replacement therapy (ERT) with GLA is currently the most effective therapeutic strategy for patients with Fabry disease (PMID: 20398385). In humans, GLA is synthesized as a 50 kDa precursor, which is further processed to a 46 kDa mature form of the protein (PMID: 9883849, 19387866). It also has a homodimer form with the molecular mass of 110 kDa (PMID: 17287429).

Notable Publications

Author	Pubmed ID	Journal	Application
Joaquin Seras-Franzoso	33738082	J Extracell Vesicles	WB,IHC
Wladimir Mauhin	30064518	Orphanet J Rare Dis	
Yang Liu	39221659	Adv Mater	IF

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

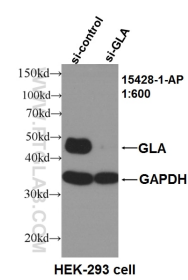
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

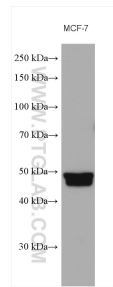
E: proteintech@ptglab.com
W: ptglab.com

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

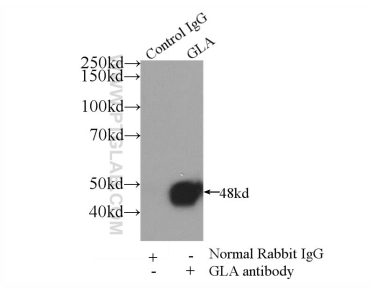
Selected Validation Data



WB result of GLA antibody (15428-1-AP, 1:600) with si-Control and si-GLA transfected HEK293 cells..



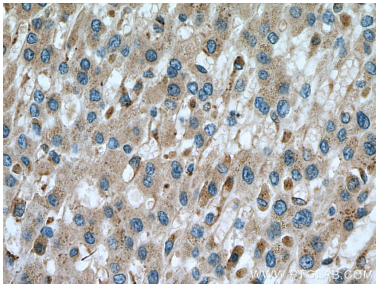
MCF-7 cells were subjected to SDS PAGE followed by western blot with 15428-1-AP (Alpha galactosidase A antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



IP result of anti-Alpha Galactosidase A (IP:15428-1-AP, 3ug; Detection:15428-1-AP 1:1000) with HEK-293 cells lysate 1800ug.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 15428-1-AP (Alpha galactosidase A 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 15428-1-AP (Alpha galactosidase A antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).