

Beta galactosidase Polyclonal ANTIBODY

Catalog Number: 15518-1-AP

4 Publications

Basic Information

Catalog Number:
15518-1-AP

Size:
28 µg/150 µl

Source:
Rabbit

Isotype:
IgG

Purification Method:
Antigen affinity purification

Immunogen Catalog Number:
AG7792

GenBank Accession Number:
BC007493

GeneID (NCBI):
2720

Full Name:
galactosidase, beta 1

Calculated MW:
76 kDa

Observed MW:
67 kDa

Recommended Dilutions:

WB 1:500-1:1000

IHC 1:20-1:200

IF 1:10-1:100

Applications

Tested Applications:

IF, IHC, WB, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse

Cited Species:

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 : SH-SY5Y cells;

IHC : human gliomas tissue; human liver cancer tissue

IF : HeLa cells;

Background Information

GLB1 (Beta-galactosidase) is also named as ELNR1 or Lactase. It cleaves beta-linked terminal galactosyl residues from gangliosides, glycoproteins, and glycosaminoglycans. This protein is identical to the elastin-binding protein (EBP), a major component of the nonintegrin cell surface receptor complex expressed in fibroblasts, smooth muscle cells, chondroblasts, leukocytes, and certain cancer cell types. Defects in GLB1 are the cause of GM1-gangliosidosis type 1 (GM1G1), GM1-gangliosidosis type 2 (GM1G2), GM1-gangliosidosis type 3 (GM1G3) and mucopolysaccharidosis type 4B (MPS4B). GLB1 is synthesized as an 85-kDa precursor that is C-terminally processed into a 64-66 kDa mature form and the released ~20-kDa proteolytic fragment was thought to be degraded (PMID: 10744681). GLB1 has 3 isoforms with MW of 76 kDa, 73 kDa and 61 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Turlo Kirsten A KA	23887637	Arterioscler Thromb Vasc Biol	WB
Yan Wu	31350342	Biosci Rep	WB
Büchner Nicole N	22507566	Exp Gerontol	WB

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

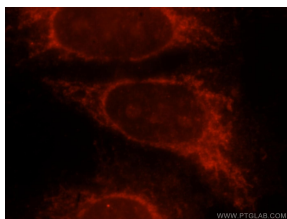
E: proteintech@ptglab.com
W: ptglab.com

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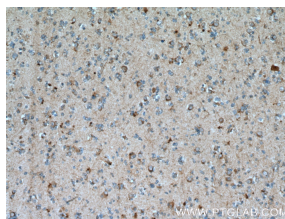
Selected Validation Data



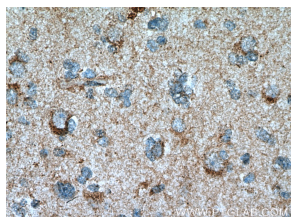
SH-SY5Y cells were subjected to SDS PAGE followed by western blot with 15518-1-AP (GLB1 antibody) at dilution of 1:400 incubated at room temperature for 1.5 hours



Immunofluorescent analysis of HeLa cells, using GLB1 antibody 15518-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 15518-1-AP (Beta galactosidase Antibody) at dilution of 1:50 (under 10x lens), heat mediated antigen retrieved with Tris-EDTA buffer (pH9).



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 15518-1-AP (Beta galactosidase Antibody) at dilution of 1:50 (under 40x lens), heat mediated antigen retrieved with Tris-EDTA buffer (pH9).