

For Research Use Only

Beta Galactosidase Polyclonal antibody



Catalog Number: 15518-1-AP

32 Publications

Basic Information

Catalog Number: 15518-1-AP	GenBank Accession Number: BC007493	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 400 µg/ml by Nanodrop;	GeneID (NCBI): 2720	Recommended Dilutions: WB 1:500-1:1000 IHC 1:20-1:200 IF 1:50-1:500
Source: Rabbit	UNIPROT ID: P16278	
Isotype: IgG	Full Name: galactosidase, beta 1	
Immunogen Catalog Number: AG7792	Calculated MW: 76 kDa	
	Observed MW: 67 kDa	

Applications

Tested Applications: WB, IF, IHC, ELISA	Positive Controls: WB : SH-SY5Y cells, IHC : human gliomas tissue, human liver cancer tissue IF : HeLa cells,
Cited Applications: WB, IP, IF, IHC	
Species Specificity: human, mouse	
Cited Species: human, rat, mouse, bovine	

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

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
Chao Cheng	36121292	Appl Immunohistochem Mol Morphol	WB,IHC
Wenyou Zhang	36144658	Molecules	IF
Jian Tian	33144900	Pain Res Manag	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

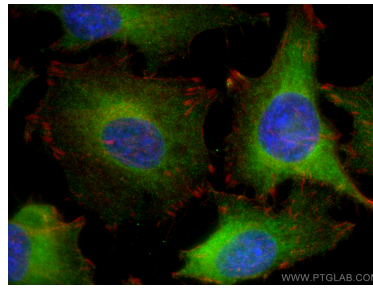
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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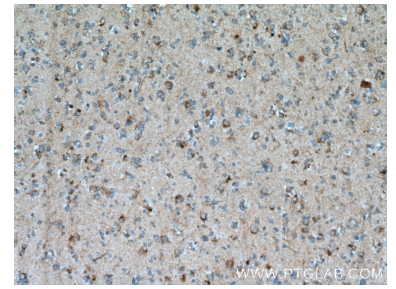
Selected Validation Data



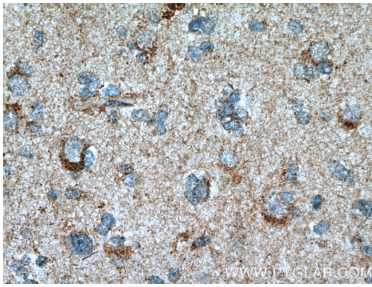
SH-SY5Y cells were subjected to SDS PAGE followed by western blot with 15518-1-AP (GLB1 antibody) at dilution of 1:400 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using Beta Galactosidase antibody (15518-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (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 retrieval with Tris-EDTA buffer (pH 9.0).



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 retrieval with Tris-EDTA buffer (pH 9.0).