

For Research Use Only

Beta Galactosidase Monoclonal antibody, PBS Only

Catalog Number: 66586-1-PBS

Featured Product



Basic Information

Catalog Number:

66586-1-PBS

Size:

100ug, Concentration: 1mg/ml by Nanodrop;

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG8069

GenBank Accession Number:

BC007493

GeneID (NCBI):

2720

UNIPROT ID:

P16278

Full Name:

galactosidase, beta 1

Calculated MW:

76 kDa

Observed MW:

64-66 kDa, 76-85 kDa

Purification Method:

Protein G purification

CloneNo.:

4F4F4

Applications

Tested Applications:

WB, IHC, IF/ICC, Indirect ELISA

Species Specificity:

human, mouse, rat

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.

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS Only

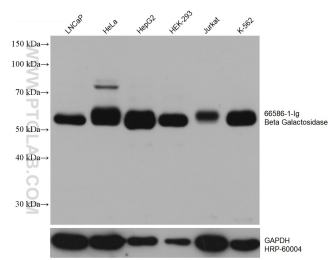
For technical support and original validation data for this product please contact:

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

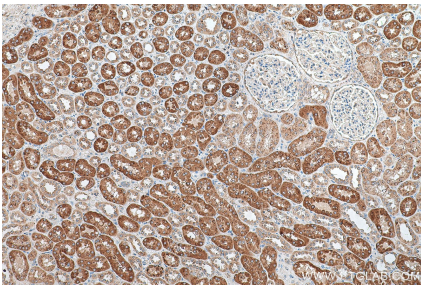
E: proteintech@ptglab.com
W: ptglab.com

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

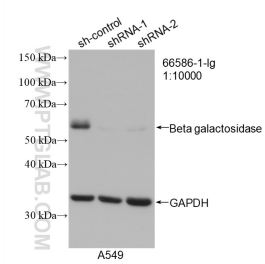
Selected Validation Data



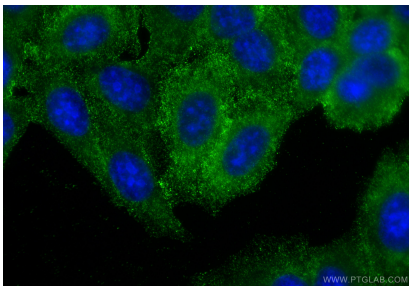
Various lysates were subjected to SDS PAGE followed by western blot with 66586-1-Ig (Beta Galactosidase antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control. This data was developed using the same antibody clone with 66586-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 66586-1-Ig (Beta Galactosidase antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66586-1-PBS in a different storage buffer formulation.



WB result of Beta Galactosidase antibody (66586-1-Ig; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Beta Galactosidase transfected A549 cells. This data was developed using the same antibody clone with 66586-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using Beta Galactosidase antibody (66586-1-Ig, Clone: 4F4F4) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1). This data was developed using the same antibody clone with 66586-1-PBS in a different storage buffer formulation.