For Research Use Only

## Beta Galactosidase Monoclonal antibody Catalog Number:66586-1-lg

**Featured Product** 

6 Publications



Basic Information	Catalog Number: 66586-1-lg	GenBank Accession N BC007493	umber: Purification M Protein G puri		
	Size:	GeneID (NCBI):	CloneNo.:		
	150ul , Concentration: 1000 ug/ml by		4F4F4		
	Nanodrop and 471 ug/ml by Bradford	UNIPROT ID:	Recommende	d Dilutions:	
	method using BSA as the standard;	P16278	WB: 1:5000-1:	50000	
	Source:	Full Name:	IHC: 1:250-1:1	000	
	Mouse	galactosidase, beta 1	IF/ICC: 1:200-	1:800	
	Isotype: IgG1	Calculated MW: 76 kDa			
	Immunogen Catalog Number: AG8069	Observed MW: 64-66 kDa, 76-85 kDa			
Applications	WB, IHC, IF/ICC, ELISA WB : LN Cited Applications: HEK-29		Positive Controls:	e Controls:	
			WB : LNCaP cells, A549 cells, HepG2 cells, HeLa cells HEK-293 cells, Jurkat cells, K-562 cells		
			IHC : human kidney tissue,	: human kidney tissue,	
	Species Specificity: IF/ICC : He human, mouse, rat		IF/ICC : HepG2 cells,		
	Cited Species: human, mouse, rat, rabbit, sheep				
	Note-IHC: suggested antigen r TE buffer pH 9.0; (*) Alternativ retrieval may be performed w buffer pH 6.0	vely, antigen			
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). GBL1 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 Pub	omed ID Jouri	al	Application	
			ontol A Biol Sci Med Sci	IF	
	Jinpeng Wang 399	983821 Life S	ci	WB	
	Joseph R Schell 398	324446 Free	Radic Biol Med	WB,IHC	
Storage	Storage: Store at -20°C. Stable for one year aft Storage Buffer: PBS with 0.02% sodium azide and 50	% glycerol, pH7.3			
*** 20ul sizes contain 0.1% BSA	Aliquoting is unnecessary for -20 $^{\circ}$ C s	torage			
			This was due to evaluate the second state and so the state		
or technical support and original validation data for this product please contact:			This product is exclusively available under Proteinte		

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 66586-1-1g (Beta Galactosidase antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRPconjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



Immunohistochemical analysis of paraffinembedded 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).



WB result of Beta Galactosidase antibody (66586-1lg; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Beta Galactosidase transfected A549 cells.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using Beta Galactosidase antibody (66586-1-1g, Clone: 4F4F4) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1).