

Product Name: KD-Validated Galactosidase Beta 1 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA00980

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 76.1kDa

Antigen Information

Gene Name	GLB1 GLB1; Galactosidase Beta 1; ELNR1; EBP; Elastin Receptor 1, 67kDa; Elastin Binding Protein;
Alternative Names	Acid; Beta-Galactosidase; Beta-Galactosidase; EC 3.2.1.23; Lactase; Elastin Receptor 1 (67kD); Galactosidase, Beta 1; Elastin Receptor 1; MPS4B
Gene ID	2720.0
SwissProt ID	P16278
Immunogen	A synthesized peptide derived from human GLB1

Background

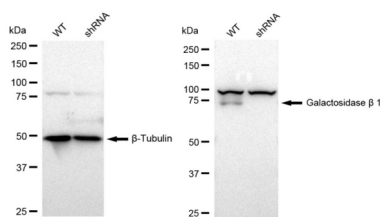
This gene encodes a member of the glycosyl hydrolase 35 family of proteins. Alternative splicing results in multiple transcript

variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature lysosomal enzyme. This enzyme catalyzes the hydrolysis of a terminal beta-linked galactose residue from ganglioside substrates and other glycoconjugates. Mutations in this gene may result in GM1-gangliosidosis and Morquio B syndrome. [provided by RefSeq, Nov 2015]

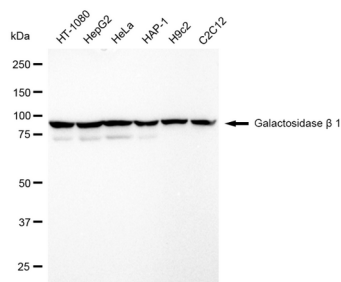
Research Area

Signal Transduction, Metabolism

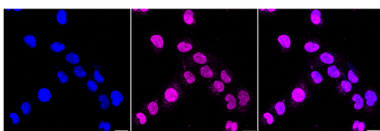
Image Data



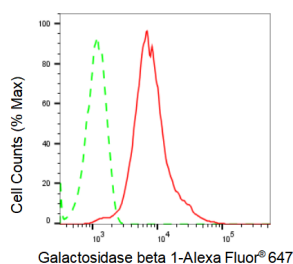
Western blotting analysis using Galactosidase beta 1 antibody (KVA00980). Galactosidase beta 1 expression in wild type (WT) and galactosidase beta 1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Galactosidase beta 1 antibody (KVA00980, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Galactosidase beta 1 antibody (KVA00980). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Galactosidase beta 1 antibody (KVA00980, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HT-1080 cells with Galactosidase beta 1 antibody (KVA00980, 1:1,000). Nuclei were stained blue with DAPI; Galactosidase beta 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Flow cytometric analysis of Galactosidase beta 1 expression in HepG2 cells using Galactosidase beta 1 antibody (KVA00980, 1:2,000). Green, isotype control; red, Galactosidase beta 1.