
Product Name: KD-Validated Galactosidase Alpha Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01077**

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: 48.8kDa

Antigen Information

Gene Name	GLA
Alternative Names	GLA; Galactosidase Alpha; GALA; Galactosylgalactosylglucosylceramidase GLA; Alpha-D-Galactosidase A; Alpha-Galactosidase A; EC 3.2.1.22; Melibiase; Alpha-D-Galactoside Galactohydrolase 1; Alpha-D-Galactoside Galactohydrolase; Agalsidase Alfa; Alpha-Gal A; Agalsidase; EC 3.2.1
Gene ID	2717.0
SwissProt ID	P06280
Immunogen	A synthesized peptide derived from human Galactosidase alpha

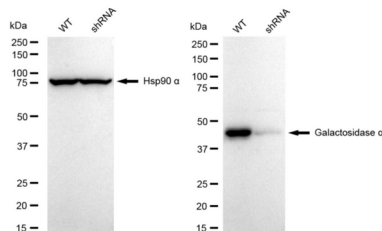
Background

This gene encodes a homodimeric glycoprotein that hydrolyses the terminal alpha-galactosyl moieties from glycolipids and glycoproteins. This enzyme predominantly hydrolyzes ceramide trihexoside, and it can catalyze the hydrolysis of melibiose into galactose and glucose. A variety of mutations in this gene affect the synthesis, processing, and stability of this enzyme, which causes Fabry disease, a rare lysosomal storage disorder that results from a failure to catabolize alpha-D-galactosyl glycolipid moieties. [provided by RefSeq, Jul 2008]

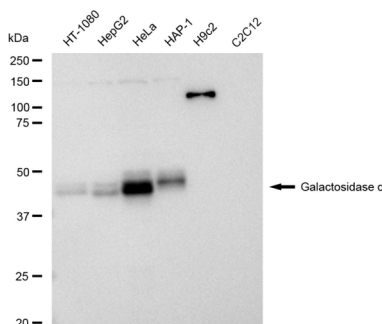
Research Area

Cardiovascular, Neuroscience

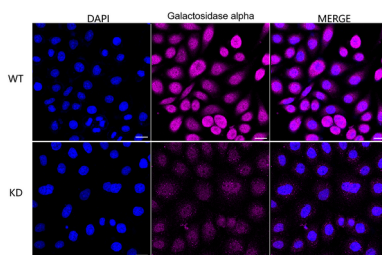
Image Data



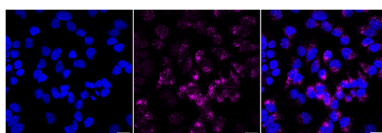
Western blotting analysis using galactosidase alpha antibody (KVA01077). Galactosidase alpha expression in wild type (WT) and galactosidase alpha (GLA) shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with galactosidase alpha antibody (KVA01077, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



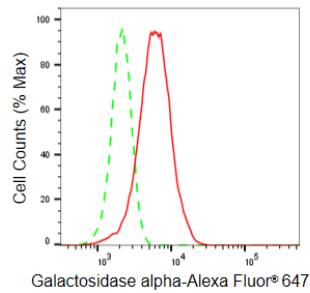
Western blotting analysis using Galactosidase alpha antibody (KVA01077). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Galactosidase alpha antibody (KVA01077, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells using Galactosidase alpha antibody (KVA01077, 1:1,000), Top panel: wild-type (WT); Bottom panel: Adiponectin receptor 1 shRNA knockdown (KD). Nuclei were stained blue with DAPI; Galactosidase alpha was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.



Immunocytochemical staining of HeLa cells with Galactosidase alpha antibody (KVA01077, 1:1,000). Nuclei were stained blue with DAPI; Galactosidase alpha 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 alpha expression in HeLa cells using Galactosidase alpha antibody (KVA01077, 1:2,000). Green, isotype control; red, Galactosidase alpha.