

ARG83291 Human GLB1 / beta Galactosidase ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG83291 Human GLB1 / beta Galactosidase ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human GLB1 / beta Galactosidase in Serum, Plasma and Cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	GLB1 / beta Galactosidase
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	15 pg/ml
Detection Range	93.7 pg/ml - 6,000 pg/ml
Sample Type	Serum, Plasma and Cell culture supernatants
Precision	Intra-Assay CV: 5.5% Inter-Assay CV: 5.6%
Alternate Names	ELNR1; Lactase; MPS4B; EC 3.2.1.23; Elastin receptor 1; EBP; Acid beta-galactosidase; Beta-galactosidase

Application Instructions

Assay Time	~ 5 hours
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Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

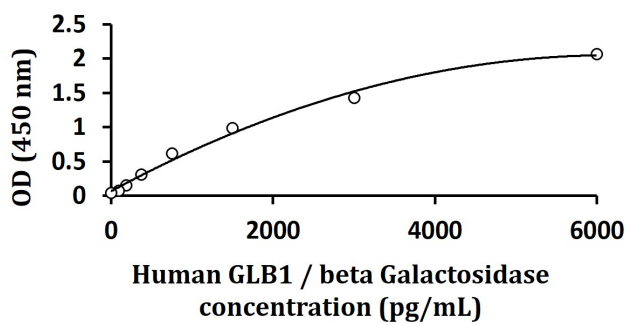
Gene Symbol	GLB1
Gene Full Name	galactosidase, beta 1
Background	This gene encodes beta-galactosidase-1, a lysosomal enzyme that hydrolyzes the terminal beta-galactose from ganglioside substrates and other glycoconjugates. Defects in this gene are the cause of GM1-gangliosidosis and Morquio B syndrome. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2008]
Function	Isoform 1: Cleaves beta-linked terminal galactosyl residues from gangliosides, glycoproteins, and

glycosaminoglycans.

Isoform 2 has no beta-galactosidase catalytic activity, but plays functional roles in the formation of extracellular elastic fibers (elastogenesis) and in the development of connective tissue. Seems to be identical to the elastin-binding protein (EBP), a major component of the non-integrin cell surface receptor expressed on fibroblasts, smooth muscle cells, chondroblasts, leukocytes, and certain cancer cell types. In elastin producing cells, associates with tropoelastin intracellularly and functions as a recycling molecular chaperone which facilitates the secretions of tropoelastin and its assembly into elastic fibers. [UniProt]

PTM	Disulfide bond; Glycoprotein; Zymogen
Cellular Localization	Cytoplasm; Lysosome

Images



ARG83291 Human GLB1 / beta Galactosidase ELISA Kit standard curve image

ARG83291 Human GLB1 / beta Galactosidase ELISA Kit results of a typical standard run with optical density reading at 450 nm.