

# Human GLA Knockdown Cell Lysate

**Cat. No.** GLA-345HKCL    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | WB-validated GLA Knockdown HeLa Cell Lysate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | HeLa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | 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. |
| <b>Form</b>             | Cell-Tissue Lysis buffer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Molecular Mass</b>   | 49 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Notes</b>            | Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa cell lysate for use. For Western blotting, we recommend running wild-type and knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.                                                                                                                                                                                                                                                   |
| <b>Storage</b>          | Store at -20 centigrade for two years.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                         |                                                                                                                                 |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>Concentration</b>    | Lot-specific                                                                                                                    |
| <b>Shipping</b>         | Blue Ice                                                                                                                        |
| <b>Components</b>       | 1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg GLA KD HeLa cell lysate                                                   |
| <b>Protein Families</b> | Druggable Genome                                                                                                                |
| <b>Protein Pathways</b> | Galactose metabolism, Glycerolipid metabolism, Glycosphingolipid biosynthesis - globo series, Lysosome, Sphingolipid metabolism |
| <b>Lysate QC</b>        | RT-qPCR; Western Blotting (WB)                                                                                                  |

## GENE INFORMATION

|                        |                                                                                                                                                                   |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | GLA galactosidase, alpha [ Homo sapiens (human) ]                                                                                                                 |
| <b>Official Symbol</b> | GLA                                                                                                                                                               |
| <b>Synonyms</b>        | GLA; galactosidase, alpha; alpha-galactosidase A; GALA; melibiase; alpha-gal A; agalsidase alfa; alpha-D-galactosidase A; alpha-D-galactoside galactohydrolase 1; |
| <b>Gene ID</b>         | 2717                                                                                                                                                              |
| <b>mRNA Refseq</b>     | NM_000169                                                                                                                                                         |
| <b>Protein Refseq</b>  | NP_000160                                                                                                                                                         |
| <b>MIM</b>             | 300644                                                                                                                                                            |
| <b>UniProt ID</b>      | P06280                                                                                                                                                            |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA