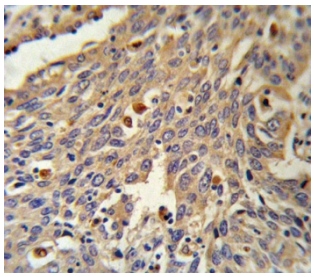
# Galactosidase alpha Antibody / Gla (F54879)

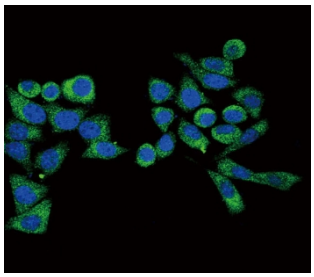
| Catalog No. | Formulation | Size |
|---|---|---|
| F54879-0.4ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.4 ml |
| F54879-0.08ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.08 ml |

**Bulk quote request**

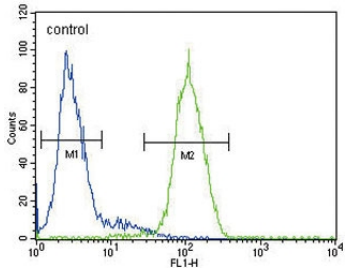
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit Ig |
| **Purity** | Purified |
| **UniProt** | P06280 |
| **Localization** | Cytoplasmic |
| **Applications** | Flow cytometry: 1:10-1:50 (1x10e6 cells)<br>Immunofluorescence: 1:10-1:50<br>Immunohistochemistry (FFPE): 1:10-1:50<br>Western blot: 1:500-1:1000 |
| **Limitations** | This Galactosidase alpha antibody is available for research use only. |



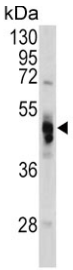
IHC testing of FFPE human lung carcinoma tissue with Galactosidase alpha antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



Immunofluorescent staining of human HeLa cells with Galactosidase alpha antibody (green) and DAPI nuclear stain (blue).




Flow cytometry testing of human HepG2 cells with Galactosidase alpha antibody; Blue=isotype control, Green= Galactosidase alpha antibody.




Western blot testing of human HeLa cell lysate with Galactosidase alpha antibody. Predicted molecular weight ~48 kDa.

## Description

GLA is 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.

## Application Notes

The stated application concentrations are suggested starting points. Titration of the Galactosidase alpha antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

A portion of amino acids 83-112 from the human protein was used as the immunogen for the Galactosidase alpha antibody.

## Storage

Aliquot the Galactosidase alpha antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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