

## GCLM Antibody / Glutamate-Cysteine Ligase Regulatory Subunit (F54261)

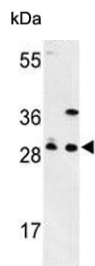
| Catalog No.   | Formulation                                | Size    |
|---------------|--------------------------------------------|---------|
| F54261-0.4ML  | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.4 ml  |
| F54261-0.08ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.08 ml |

[Bulk quote request](#)

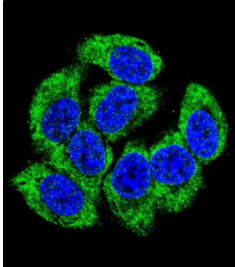
|                           |                                                                                                                                                       |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Availability</b>       | 1-3 business days                                                                                                                                     |
| <b>Species Reactivity</b> | Human, Mouse                                                                                                                                          |
| <b>Format</b>             | Purified                                                                                                                                              |
| <b>Host</b>               | Rabbit                                                                                                                                                |
| <b>Clonality</b>          | Polyclonal (rabbit origin)                                                                                                                            |
| <b>Isotype</b>            | Rabbit Ig                                                                                                                                             |
| <b>Purity</b>             | Antigen affinity purified                                                                                                                             |
| <b>UniProt</b>            | P48507                                                                                                                                                |
| <b>Gene ID</b>            | 2730                                                                                                                                                  |
| <b>Localization</b>       | Cytoplasmic                                                                                                                                           |
| <b>Applications</b>       | Western Blot : 1:1000-1:2000<br>Immunohistochemistry (FFPE) : 1:25-50<br>Flow Cytometry : 1:25 (1x10 <sup>6</sup> cells)<br>Immunofluorescence : 1:25 |
| <b>Limitations</b>        | This GCLM antibody is available for research use only.                                                                                                |



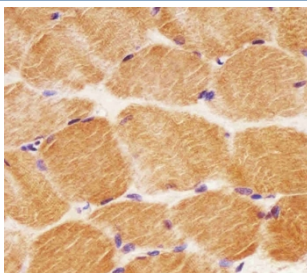
Western blot testing of human HeLa cell lysate with GCLM antibody. Predicted molecular weight ~31 kDa.



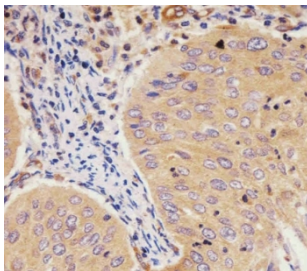
Western blot testing of 1) human 293 and 2) mouse kidney lysate with GCLM antibody. Predicted molecular weight ~31 kDa.



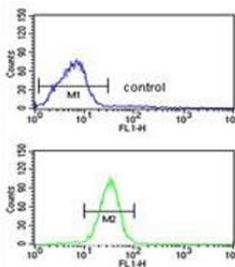
Immunofluorescent staining of fixed and permeabilized human 293 cells with GCLM antibody (green) and DAPI nuclear stain (blue).



IHC testing of FFPE human skeletal muscle tissue with GCLM antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



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



Flow cytometry testing of fixed and permeabilized human 293 cells with GCLM antibody; Blue=isotype control, Green= GCLM antibody.

## Description

GCLM known as gamma-glutamylcysteine synthetase, is the first rate limiting enzyme of glutathione synthesis. The enzyme consists of two subunits, a heavy catalytic subunit and a light regulatory subunit. Gamma glutamylcysteine synthetase deficiency has been implicated in some forms of hemolytic anemia.

## Application Notes

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

## **Immunogen**

A portion of amino acids 246-274 from the human protein were used as the immunogen for the GCLM antibody.

## **Storage**

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