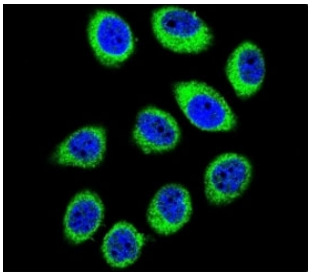
GCLC Antibody (F41799)

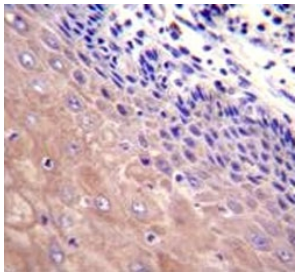
Catalog No.	Formulation	Size
F41799-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F41799-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

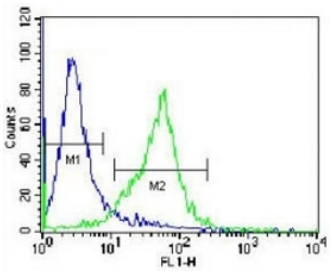
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P48506
Applications	Western Blot : 1:1000 IHC (Paraffin) : 1:10-1:50 Immunofluorescence : 1:10-1:50 Flow Cytometry : 1:10-1:50
Limitations	This GCLC antibody is available for research use only.



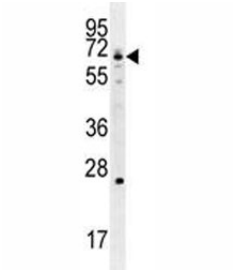
Confocal immunofluorescent analysis of GCLC antibody with U-251MG cells followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used as a nuclear counterstain (blue).



GCLC antibody immunohistochemistry analysis in formalin fixed and paraffin embedded human esophageal carcinoma.



GCLC antibody flow cytometric analysis of Jurkat cells (green) compared to a negative control (blue). FITC-conjugated donkey-anti-rabbit secondary Ab was used for the analysis.



GCLC antibody western blot analysis in Jurkat lysate

Description

Glutamate-cysteine ligase, also 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. This locus encodes the catalytic subunit, while the regulatory subunit is derived from a different gene located on chromosome 1p22-p21. Mutations at this locus have been associated with hemolytic anemia due to deficiency of gamma-glutamylcysteine synthetase and susceptibility to myocardial infarction.

Application Notes

Titration of the GCLC antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 1-30 from the human protein was used as the immunogen for this GCLC antibody.

Storage

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