

Product datasheet

Anti-GCLC antibody ab55435

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Overview

Product name	Anti-GCLC antibody
Description	Mouse monoclonal to GCLC
Host species	Mouse
Tested applications	Suitable for: WB, ICC/IF, Flow Cyt
Species reactivity	Reacts with: Rat, Human
Immunogen	Recombinant fragment, corresponding to amino acids 528-638 of Human GCLC.
General notes	Abcam is committed to meeting high standards of ethical manufacturing and has decided to discontinue this product by June 2019 as it has been generated by the ascites method. We are sorry for any inconvenience this may cause. We would recommend antibody ab207777 as a replacement.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: None PBS, pH 7.2
Purity	Protein G purified
Clonality	Monoclonal
Isotype	IgG1
Light chain type	kappa

Applications

Our [Abpromise guarantee](#) covers the use of **ab55435** in the following tested applications.

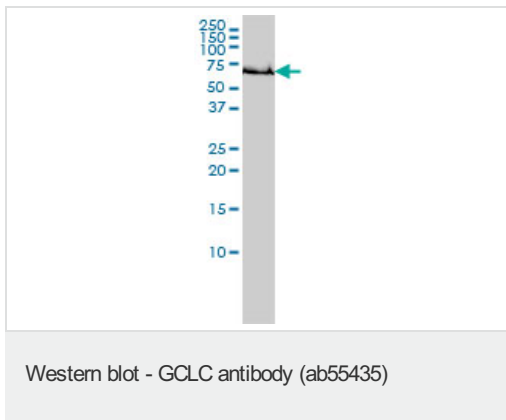
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 - 5 µg/ml. Predicted molecular weight: 73 kDa.
ICC/IF		Use a concentration of 10 µg/ml.
Flow Cyt		Use 1µg for 10 ⁶ cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

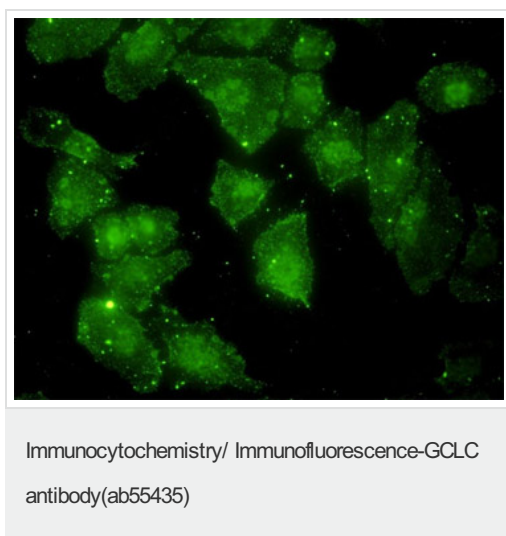
Target

Pathway	Sulfur metabolism; glutathione biosynthesis; glutathione from L-cysteine and L-glutamate: step 1/2.
Involvement in disease	Defects in GCLC are the cause of hemolytic anemia (HAGGSD) [MIM:230450].
Sequence similarities	Belongs to the glutamate--cysteine ligase type 3 family.

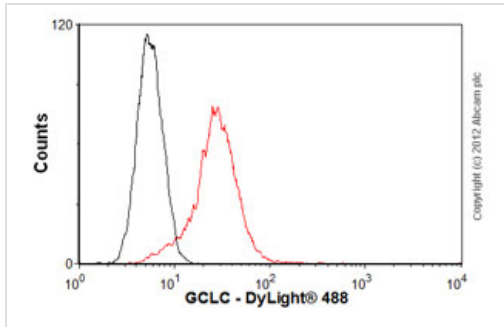
Images



GCLC (ab55435) at 1ug/lane + A-431 cell lysate at 25ug/lane.



ab55435 at 10 ug/ml staining GCLC in human Hella cells by Immunocytochemistry/ Immunofluorescence.



Flow Cytometry-Anti-GCLC antibody(ab55435)

Overlay histogram showing Jurkat cells stained with ab55435 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab55435, 1 μ g/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (ab96879) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (ab91353, 2 μ g/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed.

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