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Datasheet for ABIN3031077
anti-GCLC antibody (AA 286-315)

3 Images

Overview

Quantity:	0.4 mL
Target:	GCLC
Binding Specificity:	AA 286-315
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GCLC antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	A portion of amino acids 286-315 from the human protein was used as the immunogen for this GCLC antibody.
Isotype:	Ig Fraction
Cross-Reactivity (Details):	Expected species reactivity: Rat
Purification:	Antigen affinity purified

Target Details

Target:	GCLC
Alternative Name:	GCLC (GCLC Products)
Background:	Glutamate-cysteine ligase, also known as gamma-glutamylcysteine synthetase is the first rate-

Target Details

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.

UniProt: [P48506](#)

Pathways: [Cell RedoxHomeostasis](#)

Application Details

Application Notes: Titration of the GCLC antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 1:1000

Restrictions: For Research Use only

Handling

Format: Liquid

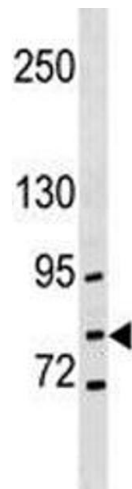
Buffer: In 1X PBS, pH 7.4, with 0.09 % sodium azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

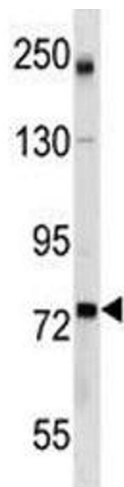
Storage: -20 °C

Storage Comment: Aliquot the GCLC antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.



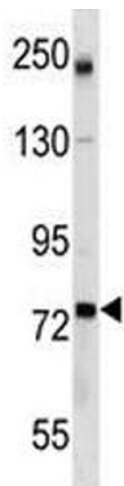
Western Blotting

Image 1. GCLC antibody western blot analysis in NCI-H292 lysate



Western Blotting

Image 2. GCLC antibody western blot analysis in mouse bladder tissue lysate



Western Blotting

Image 3. GCLC antibody western blot analysis in mouse bladder tissue lysate