



[Go to Product page](#)

Datasheet for ABIN2785780

## anti-GCLC antibody (Middle Region)

3 Images

2 Publications

### Overview

Quantity:	100 µL
Target:	GCLC
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Cow, Zebrafish (Danio rerio), Rabbit, Dog, Guinea Pig, Horse, Saccharomyces cerevisiae
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GCLC antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

### Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human GCLC
Sequence:	RISKSRYSI DSYLSKCGEK YNDIDLTIDK EIYEQLLQEG IDHLLAQHVA
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Yeast: 100%, Zebrafish: 100%
Characteristics:	This is a rabbit polyclonal antibody against GCLC. It was validated on Western Blot.
Purification:	Affinity Purified

### Target Details

Target:	GCLC
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## Target Details

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Alternative Name:	<a href="#">GCLC (GCLC Products)</a>
Background:	<p>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. GCLC is the catalytic subunit of 637 amino acids with a calculated molecular weight of 72.773 kDa. Deficiency of gamma-glutamylcysteine synthetase in human is associated with enzymopathic hemolytic anemia.</p> <p>Alias Symbols: GCL, GCS, GLCL, GLCLC</p> <p>Protein Interaction Partner: UBC, PPID, GCLM, CCL22, PAXIP1, ELAVL1,</p> <p>Protein Size: 637</p>
Molecular Weight:	73 kDa
Gene ID:	2729
NCBI Accession:	<a href="#">NM_001498</a> , <a href="#">NP_001489</a>
UniProt:	<a href="#">P48506</a>
Pathways:	<a href="#">Cell RedoxHomeostasis</a>

## Application Details

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Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 637 AA
Restrictions:	For Research Use only

## Handling

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Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C

## Handling

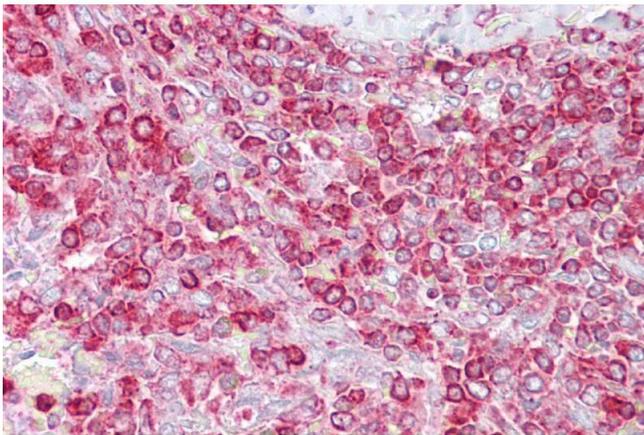
Storage Comment: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

## Publications

Product cited in: Akter, Mansour, Hyodo, Senga: "FAM98A associates with DDX1-C14orf166-FAM98B in a novel complex involved in colorectal cancer progression." in: **The international journal of biochemistry & cell biology**, Vol. 84, pp. 1-13, (2017) ([PubMed](#)).

Akter, Mansour, Hyodo, Ito, Hamaguchi, Senga: "Erratum to: FAM98A is a novel substrate of PRMT1 required for tumor cell migration, invasion and colony formation." in: **Tumour biology**, Vol. 37, Issue 5, pp. 7001, (2016) ([PubMed](#)).

## Images



### Immunohistochemistry

**Image 1.** Immunohistochemistry with Spleen tissue at an antibody concentration of 5µg/ml using anti-GCLC antibody (ARP54577\_P050)



### Western Blotting

**Image 2. WB Suggested Anti-GCLC Antibody Titration:**  
0.2-1 µg/ml

**ELISA Titer:** 1:1562500

**Positive Control:** Human Placenta



Rabbit Anti-GCLC Antibody  
Catalog Number: ARP54577  
Lot Number: QC29688  
Lane: Placenta Lysate

Antibody Titration: 1.0 µg/ml  
Gel Concentration: 12%

### Western Blotting

**Image 3.** WB Suggested Anti-GCLC

Antibody Titration: 0.2-1 µg/mL ELISA Titer: 1:1562500

Positive Control: Human Placenta