Datasheet for ABIN6141016

anti-GCLC antibody (AA 1-252)

2 Images | 1 Publication

Go to Product page

Overview

Quantity:	100 µL
Target:	GCLC
Binding Specificity:	AA 1-252
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GCLC antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-252 of human GCLC (NP_001489.1).
Sequence:	MGLLSQGSPL SWEETKRHAD HVRRHGILQF LHIYHAVKDR HKDVLKWGDE VEYMLVSFDH ENKKVRLVLS GEKVLETLQE KGERTNPNHP TLWRPEYGSY MIEGTPGQPY GGTMSEFNTV EANMRKRRKE ATSILEENQA LCTITSFPRL GCPGFTLPEV KPNPVEGGAS KSLFFPDEAI NKHPRFSTLT RNIRHRRGEK VVINVPIFKD KNTPSPFIET FTEDDEASRA SKPDHIYMDA MGFGMGNCCL QV
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	GCLC
Alternative Name:	GCLC (GCLC Products)
Background:	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.,GCLC,GCL,GCS,GLCL,GLCLC,Cancer,Signal Transduction,Cell Biology & Developmental Biology,Apoptosis,Endocrine & Metabolism,Mitochondrial metabolism,Mitochondrial markers,GCLC
Molecular Weight:	72 kDa
Gene ID:	2729
UniProt:	P48506
Pathways:	Cell RedoxHomeostasis

Application Details

Application Notes:	WB,1:500 - 1:3000,IF,1:50 - 1:200
Restrictions:	For Research Use only

Handling

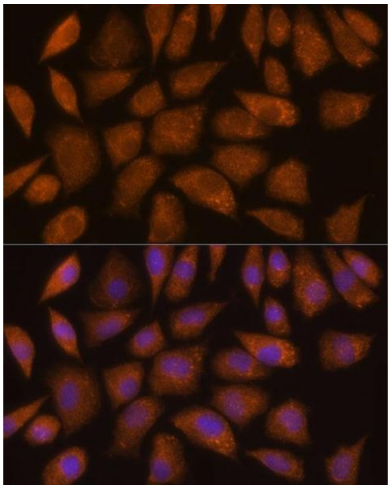
Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Publications

Product cited in:

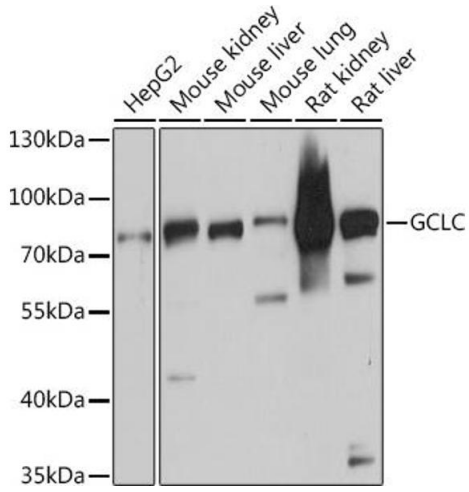
Chen, Wu, Sang, Wang, Zong, Sun, Liu, Zhao: "The lncRNA HULC functions as an oncogene by targeting ATG7 and ITGB1 in epithelial ovarian carcinoma." in: **Cell death & disease**, Vol. 8, Issue 10, pp. e3118, (2018) (PubMed).

Images



Immunofluorescence

Image 1. Immunofluorescence analysis of L929 cells using GCLC Rabbit pAb (ABIN6130444, ABIN6141016, ABIN6141017 and ABIN6214615) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using GCLC antibody (ABIN6130444, ABIN6141016, ABIN6141017 and ABIN6214615) at 1:3000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 3s.