Datasheet for ABIN7101696

anti-GCLC antibody

3 Images

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Overview

Quantity:	20 µL
Target:	GCLC
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This GCLC antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	A synthesized peptide derived from human GCLC
Isotype:	IgG
Cross-Reactivity:	Human, Rat
Characteristics:	Monoclonal 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

Target Details

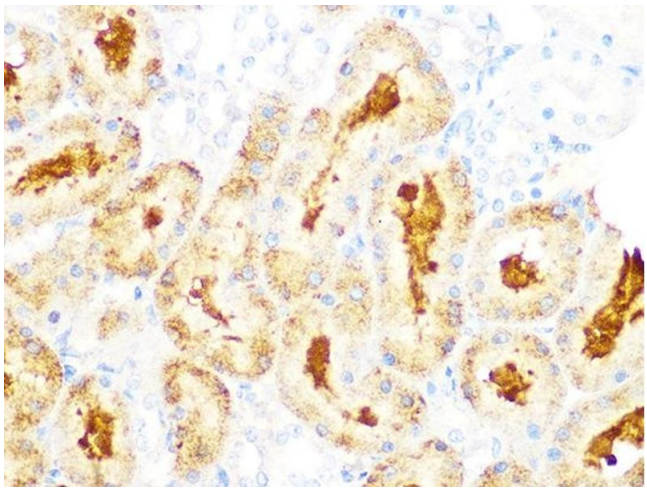
	catalytic subunit and a light regulatory subunit. This locus encodes the catalytic subunit, while the regulatory subunit is derived from a different gene located on chromosome 1p22-p21. Mutations at this locus have been associated with hemolytic anemia due to deficiency of gamma-glutamylcysteine synthetase and susceptibility to myocardial infarction.[provided by RefSeq, Oct 2010],GCL, GCS, GLCL, GLCLC,Apoptosis,Cancer,Cell Biology & Developmental Biology,Endocrine & Metabolism,Mitochondrial metabolism,Mitochondrial metabolism_Mitochondrial markers,Signal Transduction,GCLC
Molecular Weight:	73 kDa
Gene ID:	2729
UniProt:	P48506
Pathways:	Cell RedoxHomeostasis

Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200
Restrictions:	For Research Use only

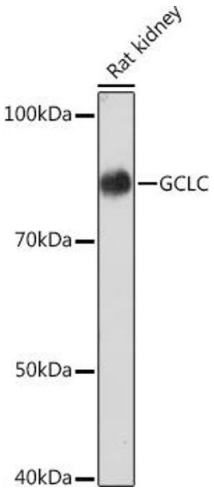
Handling

Buffer:	PBS with 0.02 % sodium azide,0.05 % BSA,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.



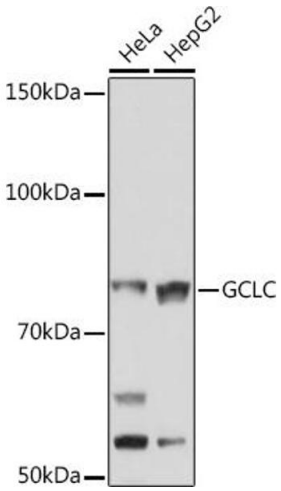
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded rat kidney using GCLC Rabbit mAb (ABIN1680604, ABIN3018993, ABIN3018994 and ABIN7101696) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Western Blotting

Image 2. Western blot analysis of extracts of Rat kidney, using GCLC Rabbit mAb (ABIN1680604, ABIN3018993, ABIN3018994 and ABIN7101696) at 1:1000 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: 3 min.



Western Blotting

Image 3. Western blot analysis of extracts of various cell lines, using GCLC Rabbit mAb (ABIN1680604, ABIN3018993, ABIN3018994 and ABIN7101696) at 1:1000 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 Enhanced Kit (RM00021).Exposure time: 3 min.

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