Anti-GCLM Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R015701

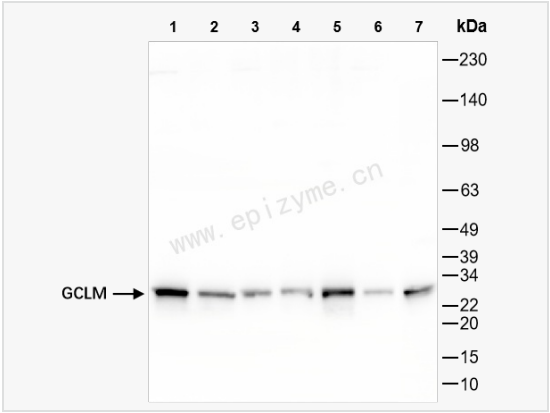
Product Information

Application	WB, IHC-P/IF (Tissue-P), ELISA
Reactivity	Human, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	79H09H28
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human GCLM
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-GCLM Rabbit mAb [79H09H28] is for research use only and not for use in diagnostic or therapeutic procedures.

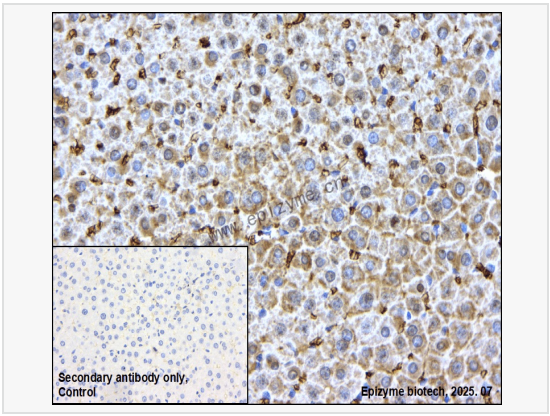
Protein Information

Synonyms	Gamma ECS regulatory subunit; Gamma-ECS regulatory subunit; Gamma-glutamylcysteine synthetase regulatory subunit; GCLM; GCS light chain; GLCLR; Glutamate cysteine ligase regulatory subunit; Glutamate--cysteine ligase modifier subunit; Glutamate--cysteine ligase regulatory subunit; GSC light chain; GSH0_HUMAN.
Calculated MW	Calculated MW: 31 kDa; Observed MW: 28 kDa
Uniprot ID	P48507
Gene ID	2730
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. Gamma glutamylcysteine synthetase deficiency has been implicated in some forms of hemolytic anemia. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2015]
Tissue Location	In all tissues examined. Highest levels in skeletal muscle.

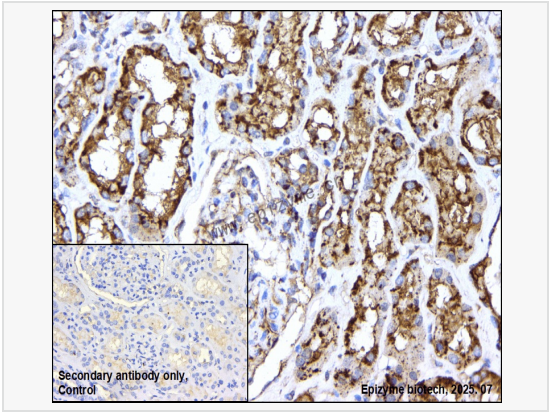
Validation Images



Western Blot - Anti-GCLM Rabbit mAb [79H09H28]
All lanes: R015701 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: 293T (Human embryonic kidney cell) whole cell lysates
Lane 5: K562 (Human chronic myeloid leukemia cell) whole cell lysates
Lane 6: SH-SY5Y (Human neuroblastoma epithelial cell) whole cell lysates
Lane 7: Rat liver whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 31 kDa
Observed band size: 28 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-GCLM Rabbit mAb [79H09H28]
Sample: Paraformaldehyde-fixed, paraffin embedded rat liver tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015701 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-GCLM Rabbit mAb [79H09H28]
Sample: Paraformaldehyde-fixed, paraffin embedded human renal carcinoma tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015701 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.