

GCLM Rabbit mAb

Catalog No.: A29359 **Recombinant**

Basic Information

Observed MW

28 kDa

Calculated MW

28 kDa/31 kDa

Category

Primary antibody

Applications

WB,IP,IF-F,ELISA

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC4137

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.

Recommended Dilutions

WB 1:4000 - 1:20000

IP 0.5 µg - 4 µg antibody for
200 µg - 400 µg extracts of
whole cells

IF-F 1:200 - 1:800

ELISA Recommended starting
concentration is 1 µg/mL.
Please optimize the
concentration based on your
specific assay requirements.
For high-ratio antibody
dilutions ($\geq 1:10000$) a
sequential dilution method
is strongly recommended to
ensure measurement
accuracy.

Immunogen Information

Gene ID

2730

Swiss Prot

P48507

Immunogen

This information is considered to be commercially sensitive.

Synonyms

GLCLR

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% Sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

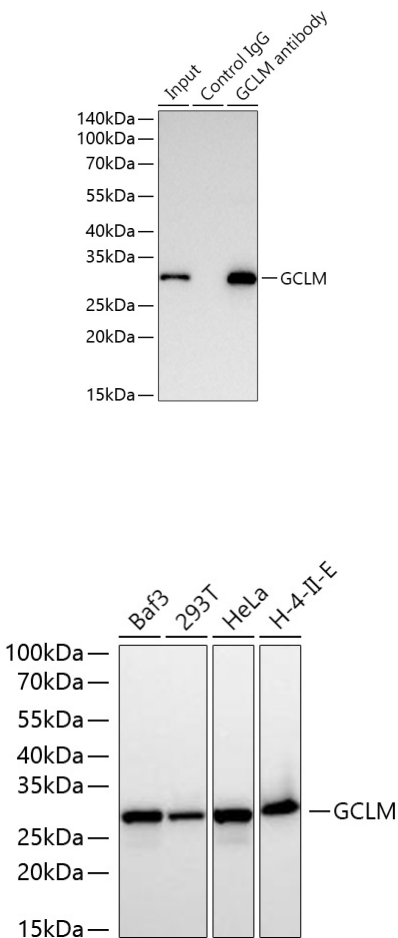
Contact

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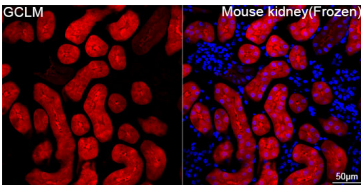
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Validation Data

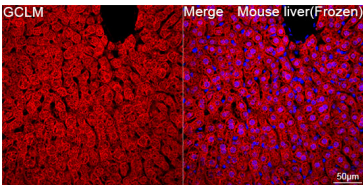


Immunoprecipitation of GCLM from 300 µg extracts of A-431 cells was performed using 1 µg of GCLM Rabbit mAb (A29359). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using GCLM Rabbit mAb (A29359) at a dilution of 1:10000.

Western blot analysis of various lysates using GCLM Rabbit mAb (A29359) at 1:10000 dilution incubated overnight at 4°C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) 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: 20 s.



Confocal imaging of frozen sections of Mouse kidney tissue using GCLM Rabbit mAb (A29359, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Confocal imaging of frozen sections of Mouse liver tissue using GCLM Rabbit mAb (A29359, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.