

GCLM Rabbit mAb

Catalog No: #49677

Package Size: #49677-1 50ul #49677-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

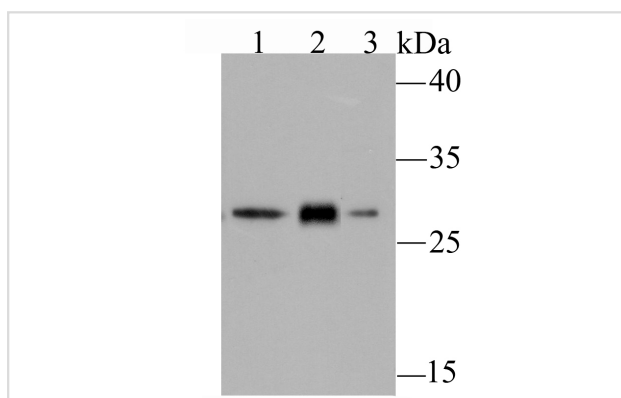
Description

Product Name	GCLM Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, FC, IP
Species Reactivity	Hu, Ms, Rt
Immunogen Description	Recombinant protein
Other Names	Gamma ECS regulatory subunit antibody Gamma-ECS regulatory subunit antibody Gamma-glutamylcysteine synthetase regulatory subunit antibody GCLM antibody GCS light chain antibody GLCLR antibody Glutamate cysteine ligase regulatory subunit antibody Glutamate--cysteine ligase modifier subunit antibody Glutamate--cysteine ligase regulatory subunit antibody GSC light chain antibody GSH0_HUMAN antibody
Accession No.	Swiss-Prot#:P48507
Uniprot	P48507
GeneID	2730;
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

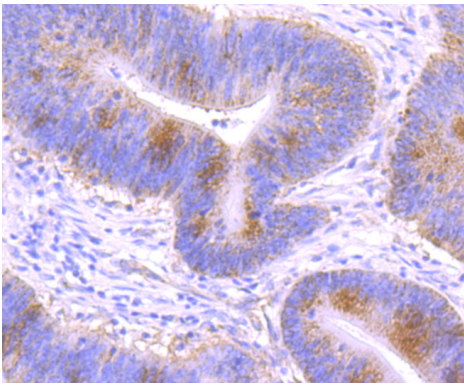
Application Details

WB: 1:500-1:1,000 IHC: 1:50-1:100 ICC: 1:50-1:200 FC: 1:50-1:100

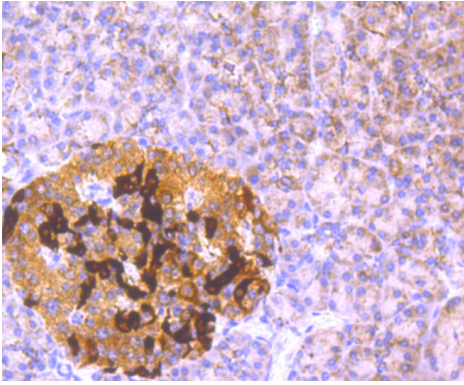
Images



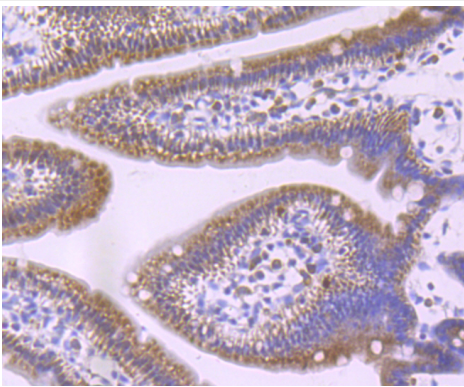
Western blot analysis of GCLM on different cell lysates using anti-GCLM antibody at 1/500 dilution. Positive control: Lane 1: A431 Lane 2: PC-12 Lane 3: NIH-3T3



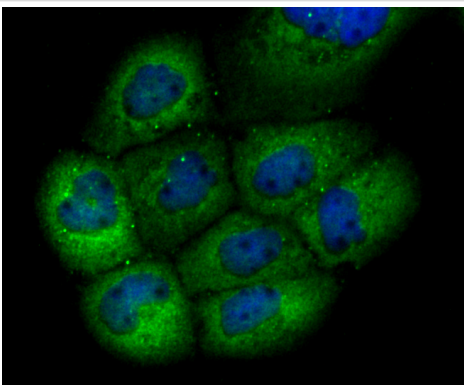
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-GCLM antibody. Counter stained with hematoxylin.



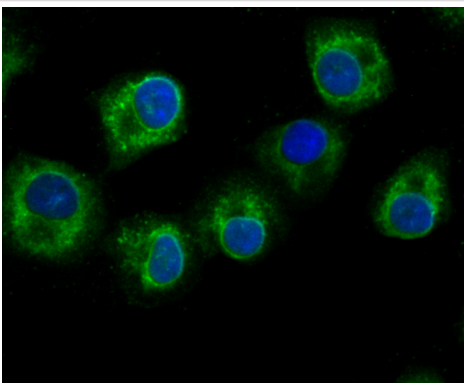
Immunohistochemical analysis of paraffin-embedded human pancreas tissue using anti-GCLM antibody. Counter stained with hematoxylin.



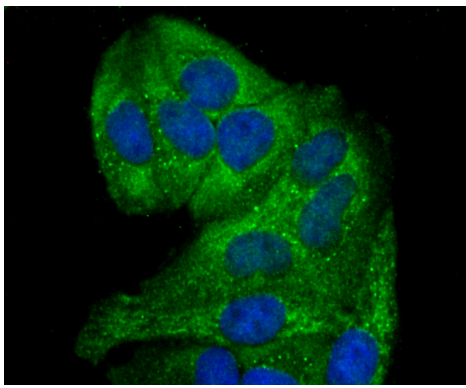
Immunohistochemical analysis of paraffin-embedded mouse small intestine tissue using anti-GCLM antibody. Counter stained with hematoxylin.



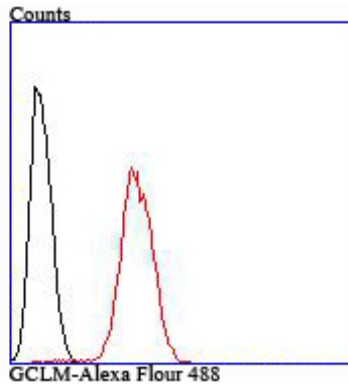
ICC staining GCLM in A431 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining GCLM in A549 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining GCLM in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of HeLa cells with GCLM antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black).

Background

Gamma-glutamylcysteine synthetase (γ -GCS) is the rate limiting enzyme for glutathione (L-gamma-glutamyl-L-cysteinylglycine, GSH) synthesis. GSH is ubiquitous in mammalian cells as a vital intra- and extracellular protective antioxidant. γ -GCS is a heterodimer of a heavy catalytic subunit and a light regulatory subunit that is responsive to inflammation, phenolic antioxidants, heat shock, oxidants and cytokines. The human gamma-GCS gene encoding the 367 amino acid catalytic subunit maps to chromosome 6p12. The human γ -GCS gene encoding the regulatory subunit maps to chromosome 1p22-p21. The two subunits of γ -GCS form a heterodimeric zinc metalloprotein that gains activity through formation of a reversible disulfide bond.

References

Note: This product is for in vitro research use only