Data Sheet (Cat.No.TMAC-01635)

Anti-GCLM Antibody (9X353)

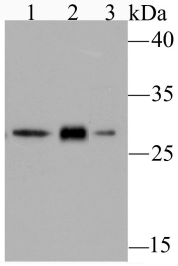
Product Details

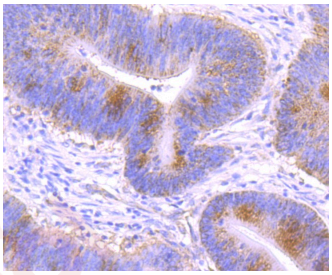
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Clone:	9X353
Purification:	ProA affinity purified

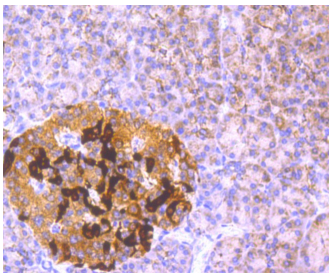
Applications

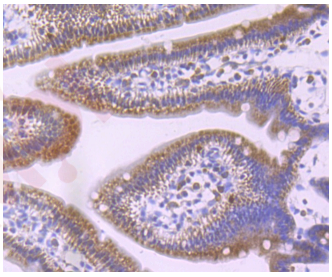
Verified Activity:

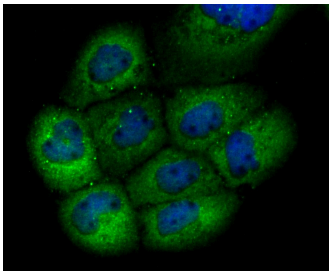
1. Western blot analysis of GCLM on different cell lysates using anti-GCLM antibody at 1/500 dilution. Positive control: Lane 1: A431, Lane 2: PC-12, Lane 3: NIH-3T3.
2. Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-GCLM antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human pancreas tissue using anti-GCLM antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded mouse small intestine tissue using anti-GCLM antibody. Counter stained with hematoxylin.
5. 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.
6. 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.
7. 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.
8. 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).

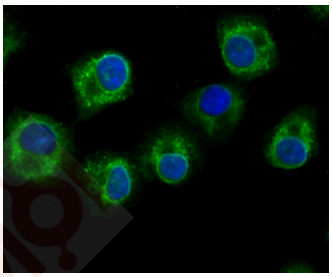


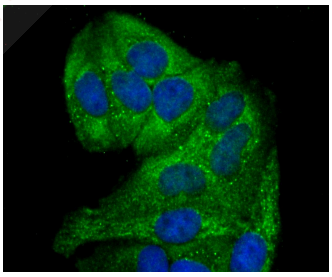


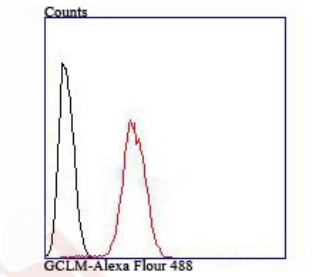












Application: FCM,ICC/IF,IHC,IP,WB

Recommended: WB: 1:500-1000; IHC: 1:50-100; ICC/IF: 1:50-200; FCM: 1:50-100

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P48507

Synonyms: Glutamate--cysteine ligase modifier subunit;GSH0_HUMAN;Gamma ECS regulatory subunit; GLCLR;Gamma-ECS regulatory subunit;Glutamate--cysteine ligase regulatory subunit;GSC light chain;GCLM;Gamma-glutamylcysteine synthetase regulatory subunit;GCS light chain; Glutamate cysteine ligase regulatory subunit

Research 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.

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