Data Sheet (Cat.No.TMAB-06554)

Anti-Glutamate dehydrogenase 1 Antibody (2M361)

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Molecular Weight:	Theoretical: 61 kDa. Actual: 55 kDa.
Clone:	2M361
Purification:	Protein A purified

Applications

Verified Activity:	1. The HepG2 (H) cells were fixed with 4% PFA (10 min at r. T.) and then permeabilized with 90% ice-cold methanol for 20 min at -20℃, the cells then were incubated in 5% BSA to block non-specific protein-protein interactions (30 min at r. T.). Primary Antibody (green): Rabbit Anti-Glutamate dehydrogenase 1 antibody (TMAB-06554, 1: 100); Secondary Antibody (white blue): Goat anti-Rabbit IgG-BF488 (BF488): 1 μg/test. Isotype Control (orange): Rabbit IgG. Blank control (black): PBS. Acquisition of 20,000 events was performed. 2. Paraformaldehyde-fixed, paraffin embedded Mouse Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Glutamate dehydrogenase 1 Monoclonal Antibody, Unconjugated (TMAB-06554) at 1:200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG H&L-HRP and DAB staining. 3. Paraformaldehyde-fixed, paraffin embedded Rat Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Glutamate dehydrogenase 1 Monoclonal Antibody, Unconjugated (TMAB-06554) at 1:200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG H&L-HRP and DAB staining. 4. Paraformaldehyde-fixed, paraffin embedded Human Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Glutamate dehydrogenase 1 Monoclonal Antibody, Unconjugated (TMAB-06554) at 1:200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG H&L-HRP and DAB staining. 5. Paraformaldehyde-fixed, paraffin embedded Mouse Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Glutamate dehydrogenase 1 Monoclonal Antibody, Unconjugated (TMAB-06554) at 1:200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG H&L-HRP and DAB staining. 6. Paraformaldehyde-fixed, paraffin embedded Rat Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Glutamate dehydrogenase 1 Monoclonal Antibody, Unconjugated (TMAB-06554) at 1:200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG H&L-HRP and DAB staining. 7. Paraformaldehyde-fixed, paraffin embedded Human Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Glutamate dehydrogenase 1 Monoclonal Antibody, Unconjugated (TMAB-06554) at 1:200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG H&L-HRP and DAB staining. 8. Paraformaldehyde-fixed, paraffin embedded Mouse Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Glutamate dehydrogenase 1 Monoclonal Antibody, Unconjugated (TMAB-06554) at 1:200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG H&L-HRP and DAB staining. 9. Paraformaldehyde-fixed, paraffin embedded Rat Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Glutamate

dehydrogenase 1 Monoclonal Antibody, Unconjugated (TMAB-06554) at 1:200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG H&L-HRP and DAB staining.
10. Paraformaldehyde-fixed, paraffin embedded Human Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Glutamate dehydrogenase 1 Monoclonal Antibody, Unconjugated (TMAB-06554) at 1:200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG H&L-HRP and DAB staining.
11. Paraformaldehyde-fixed, paraffin embedded Human Colon Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Glutamate dehydrogenase 1 Monoclonal Antibody, Unconjugated (TMAB-06554) at 1:200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG H&L-HRP and DAB staining.
12. Paraformaldehyde-fixed, paraffin embedded Human Breast Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Glutamate dehydrogenase 1 Monoclonal Antibody, Unconjugated (TMAB-06554) at 1:200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG H&L-HRP and DAB staining.
13. Paraformaldehyde-fixed, paraffin embedded Human Prostate Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with Glutamate dehydrogenase 1 Monoclonal Antibody, Unconjugated (TMAB-06554) at 1:200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG H&L-HRP and DAB staining.
14. 4% Paraformaldehyde-fixed HepG2 (H) cell; Triton X-100 at r. T. for 20 min; Antibody incubation with (Glutamate dehydrogenase 1) monoclonal Antibody, unconjugated (TMAB-06554) 1: 100, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit IgG antibody (green, BF488) at 37°C for 90 min, DAPI (blue) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control.
15. 25 ug total protein per lane of various lysates (see on figure) probed with Glutamate dehydrogenase 1 monoclonal antibody, unconjugated (TMAB-06554) at 1: 1000 dilution and 4° C overnight incubation. Followed by conjugated secondary antibody incubation at r. T. for 60 min.

Application:	WB,IHC-P,IHC-Fr,ICC/IF,IF,FCM
Recommended	WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; ICC/IF: 1:50-200; IF: 1:100-500; FCM: 1:50-100

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	A synthesized peptide: human Glutamate dehydrogenase 1
Antigen Species:	Human
Gene ID:	2746
Uniprot ID:	P00367

Research Background

Mitochondrial glutamate dehydrogenase that catalyzes the conversion of L-glutamate into alpha-ketoglutarate. Plays a key role in glutamine anaplerosis by producing alpha-ketoglutarate, an important intermediate in the tricarboxylic acid cycle. Plays a role in insulin homeostasis.

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