

Anti-GLUT12 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:GuineaPig,Rabbit,Horse,Cow,Pig,Dog,Chicken)
Molecular Weight:	Theoretical: 68 kDa. Actual: 77 kDa.
Purification:	Protein A purified

Applications

Verified Activity:

1. Tissue/cell: mouse heart tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01 M, pH 6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-Glut12 Polyclonal Antibody, Unconjugated (TMAB-06549) 1: 200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining
2. Paraformaldehyde-fixed, paraffin embedded (rat spinal cord); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (GLUT12) Polyclonal Antibody, Unconjugated (TMAB-06549) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
3. SHSY5Y cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Antibody incubation with (GLUT12) polyclonal Antibody, Unconjugated (TMAB-06549) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue) was used to stain the cell nuclei.
4. Paraformaldehyde-fixed, paraffin embedded (mouse spinal cord); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (GLUT12) Polyclonal Antibody, Unconjugated (TMAB-06549) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
5. A-549 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Antibody incubation with (GLUT12) polyclonal Antibody, Unconjugated (TMAB-06549) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue) was used to stain the cell nuclei.
6. Paraformaldehyde-fixed, paraffin embedded Human Liver Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with GLUT12 Polyclonal Antibody, Unconjugated (TMAB-06549) at 1: 200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG H&L Secondary Antibody-HRP and DAB staining.
7. Paraformaldehyde-fixed, paraffin embedded Human Skeletal muscle; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with GLUT12 Polyclonal Antibody, Unconjugated (TMAB-06549) at 1: 200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG H&L Secondary Antibody-HRP and DAB staining.
8. Paraformaldehyde-fixed, paraffin embedded Human Fundus; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with GLUT12 Polyclonal Antibody, Unconjugated (TMAB-06549) at 1: 200 overnight at 4°C, followed by conjugation to the Goat

Anti-Rabbit IgG H&L Secondary Antibody-HRP and DAB staining.

9. Paraformaldehyde-fixed, paraffin embedded Human Small Intestine; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with GLUT12 Polyclonal Antibody, Unconjugated (TMAB-06549) at 1: 200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG H&L Secondary Antibody-HRP and DAB staining.

10. Paraformaldehyde-fixed, paraffin embedded Human Breast Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with GLUT12 Polyclonal Antibody, Unconjugated (TMAB-06549) at 1: 200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG H&L Secondary Antibody-HRP and DAB staining.

11. Paraformaldehyde-fixed, paraffin embedded Human Gastric fundus adenocarcinoma; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with GLUT12 Polyclonal Antibody, Unconjugated (TMAB-06549) at 1: 200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG H&L Secondary Antibody-HRP and DAB staining.

12. 25 µg total protein per lane of various lysates (see on figure) probed with GLUT12 polyclonal antibody, unconjugated (TMAB-06549) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r. T. for 60 min.

13. The MCF-7 (H) cells were incubated in 5% BSA to block non-specific protein-protein interactions (30 min at r. T.). Primary Antibody (green): Rabbit Anti-GLUT12 antibody (TMAB-06549): 1 µg/10⁶ cells; Secondary Antibody (white blue): Goat anti-Rabbit IgG-BF647: 1 µg/test. Isotype Control (orange): Rabbit IgG. Blank control (black): PBS. Acquisition of 20,000 events was performed.

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: 1:100; IF: 1:100-500; FCM: 1µg/Test

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: KLH conjugated synthetic peptide: human GLUT12

Antigen Species: Human

Gene ID: 154091

Uniprot ID: Q8TD20

Research Background

GLUT12 belongs to a family of transporters that catalyze the uptake of sugars through facilitated diffusion. Thirteen different types of glucose/fructose transport carrier proteins designated as Glut 1-13 facilitate glucose/fructose transport across the cell membrane. Individual members of the Glut family have predicted secondary structure characteristic of 12 membrane spanning domains of other transport carriers.

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