

Anti-Phospho-PKM2 (Tyr105) Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Rat,Rabbit (predicted:Mouse,Dog,Pig,Cow,Horse,GuineaPig)
Molecular Weight:	Theoretical: 58 kDa.
Purification:	Protein A purified

Applications

1. phosphopeptide
non phosphopeptide
2. Tissue/cell: human liver carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH6.0), 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-Phospho-PKM2 (Tyr105) Polyclonal Antibody, Unconjugated (TMAB-01482) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAb staining.
3. Tissue/cell: Rat Thyroid tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH6.0), 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-Phospho-NMDAR1 (Ser890) Polyclonal Antibody, Unconjugated (TMAB-01482) 1:200, overnight at 4°C, followed by conjugati Phospho-PKM2on to the secondary antibody and DAb staining.
4. Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH6.0), 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-Phospho-PKM2 Polyclonal Antibody, Unconjugated (TMAB-01482) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAb staining.
5. Tissue/cell: rat thyroid tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH6.0), 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-Phospho-PKM2 (Tyr105) Polyclonal Antibody, Unconjugated (TMAB-01482) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAb staining.
6. Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH6.0), 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-Phospho-PKM2 (Tyr105) Polyclonal Antibody, Unconjugated (TMAB-01482) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAb staining.
7. Tissue/cell: human endometrium tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH6.0), 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;

Verified Activity:

Incubation: Anti-Phospho-PKM2 (Tyr105) Polyclonal Antibody, Unconjugated (TMAB-01482) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAb staining.
8. Blank control: A549. Primary Antibody (green line): Rabbit Anti-Phospho-PKM2 (Tyr105) antibody (TMAB-01482)

Dilution: 1 µg/10⁶ cells;

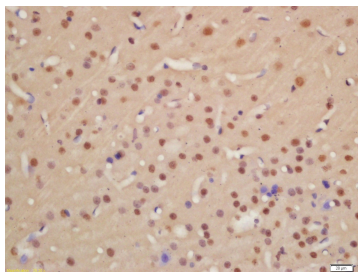
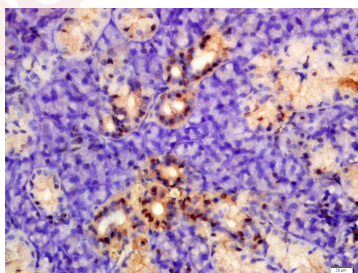
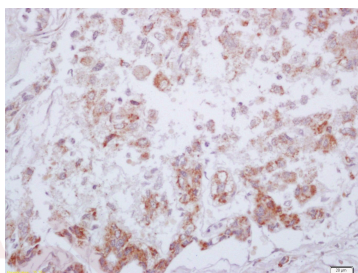
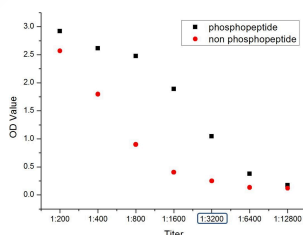
Isotype Control Antibody (orange line): Rabbit IgG.

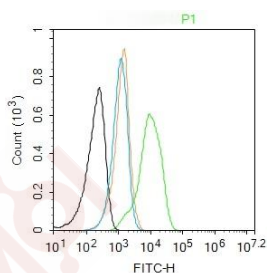
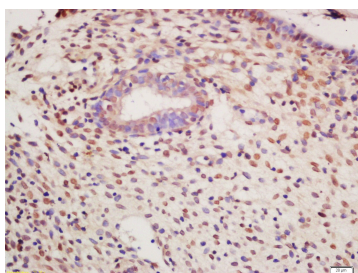
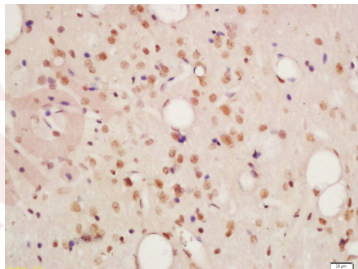
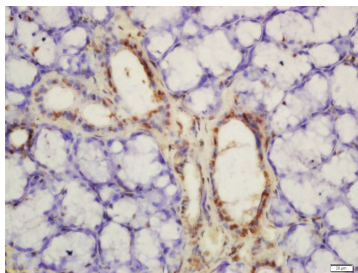
Secondary Antibody: Goat anti-rabbit IgG-AF488

Dilution: 1 µg/test.

Protocol

The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 0.1% PBST for 20 min at room temperature. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature.





Application: ELISA,FCM,IF,IHC-Fr,IHC-P

Recommended IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; FCM: 1ug/Test; ELISA: 1:5000-10000

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: KLH conjugated Synthesised phosphopeptide: human PKM2 around the phosphorylation site of Tyr105

Antigen Species: Human

Gene ID: 5315

Uniprot ID: P14618

Synonyms: THBP1;p-PKM2 (Y105);PK3;PKM2 (p-Tyr105);p-PKM2 (Tyr105);TCB;CTHBP;PKM2;OIP3;HEL-S-30; pyruvate kinase, muscle;PKM2 (p-Y105)

Biology Area: Energy Metabolism,Energy Metabolism,Carbohydrate metabolism,Kinases/Phosphatases, Enzymes,Metabolism of carbohydrates

Research Background

The protein encoded by this gene is a pyruvate kinase that catalyzes the production of phosphoenolpyruvate from pyruvate and ATP. This protein has been shown to interact with thyroid hormone, and thus may mediate cellular metabolic effects induced by thyroid hormones. This protein has been found to bind Opa protein, a bacterial outer membrane protein involved in gonococcal adherence to and invasion of human cells, suggesting a role of this protein in bacterial pathogenesis. Three alternatively spliced transcript variants encoding two distinct isoforms have been reported.

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