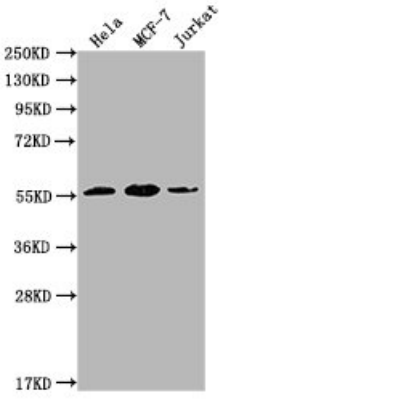
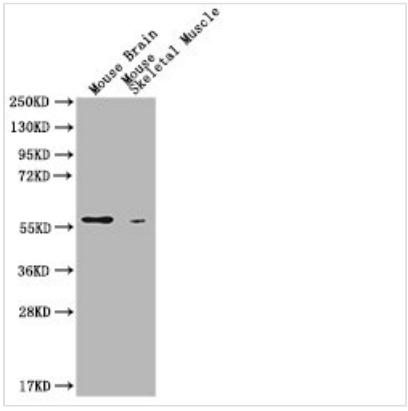
PKM Monoclonal Antibody

Product Code	CSB-MA018072A1m
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P14618
Immunogen	Recombinant Human Pyruvate kinase PKM protein (2-531AA)
Raised In	Mouse
Species Reactivity	Human, Mouse
Tested Applications	ELISA, WB, IHC, IF, FC, IP; Recommended dilution: WB: 1:4000-1:512000, IHC: 1:500-1:1000, IF: 1:150-1:300, FC: 1:50-1:100, IP: 1μl-4μl
Relevance	Glycolytic enzyme that catalyzes the transfer of a phosphoryl group from phosphoenolpyruvate (PEP) to ADP, generating ATP. Stimulates POU5F1-mediated transcriptional activation. Plays a general role in caspase independent cell death of tumor cells. The ratio betwween the highly active tetrameric form and nearly inactive dimeric form determines whether glucose carbons are channeled to biosynthetic processes or used for glycolytic ATP production. The transition between the 2 forms contributes to the control of glycolysis and is important for tumor cell proliferation and survival.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Purification Method	>95%, Protein A purified
Isotype	IgG1
Clonality	Monoclonal
Product Type	Monoclonal Antibody
Immunogen Species	Homo sapiens (Human)
Target Names	PKM
Clone No.	4C8E12

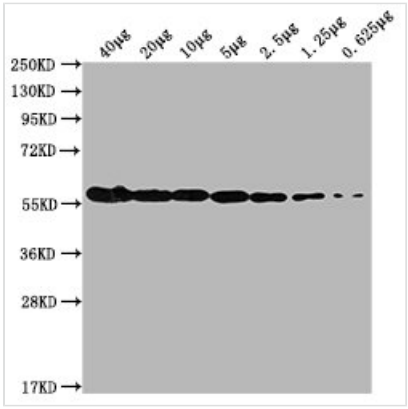
Image



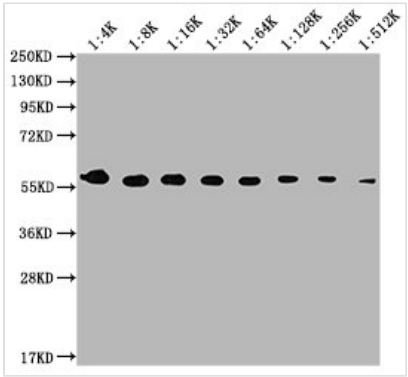
Western Blot
Positive WB detected in: Hela whole cell lysate, MCF-7 whole cell lysate, Jurkat whole cell lysate
All lanes: PKM antibody at 1:5000
Secondary
Goat polyclonal to Mouse IgG at 1/10000 dilution
Predicted band size: 58 kDa
Observed band size: 58 KDa
Exposure time: 1min



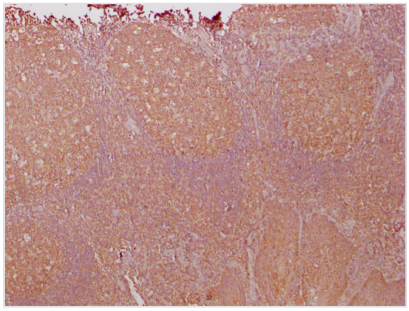
Western Blot
Positive WB detected in: Mouse Brain tissue, Mouse Skeldtal Muscle tissue
All lanes: PKM antibody at 1:1000
Secondary
Goat polyclonal to Mouse IgG at 1/10000 dilution
Predicted band size: 58 kDa
Observed band size: 58 KDa
Exposure time: 5min



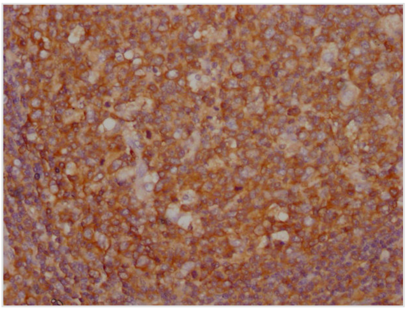
Western Blot
Positive WB detected in: MCF-7 whole cell lysate at 40μg, 20μg, 10μg, 5μg, 2.5μg, 1.25μg, 0.625μg
All lanes: PKM antibody at 1:5000
Secondary
Goat polyclonal to Mouse IgG at 1/10000 dilution
Predicted band size: 58 kDa
Observed band size: 58 KDa
Exposure time: 5min



Western Blot
Positive WB detected in: MCF-7 whole cell lysate
All lanes: PKM antibody at 1:4000, 1:8000, 1:16000, 1:32000, 1:64000, 1:128000, 1:256000, 1:512000
Secondary
Goat polyclonal to Mouse IgG at 1/10000 dilution
Predicted band size: 58 kDa
Observed band size: 58 KDa
Exposure time: 5min



IHC image of CSB-MA018072A1m diluted at 1:1000 and staining in paraffin-embedded human tonsil tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



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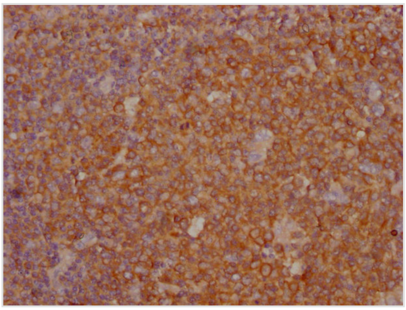

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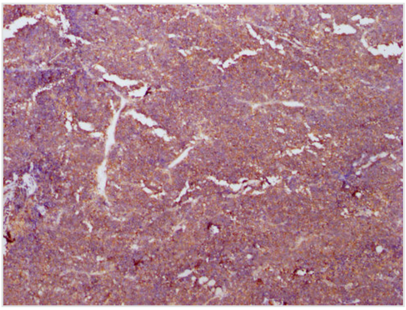
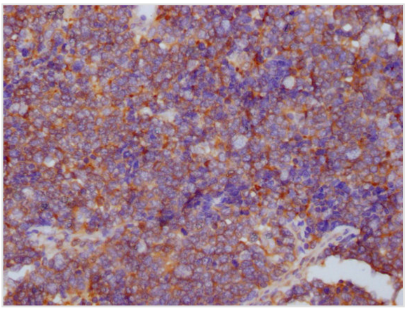


IHC image of CSB-MA018072A1m diluted at 1:1000 and staining in paraffin-embedded human lung cancer tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



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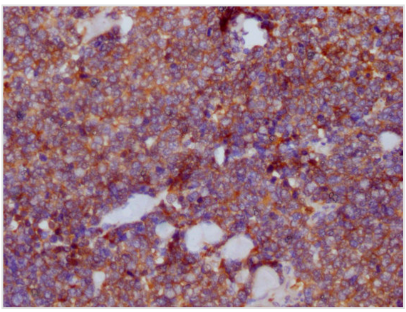

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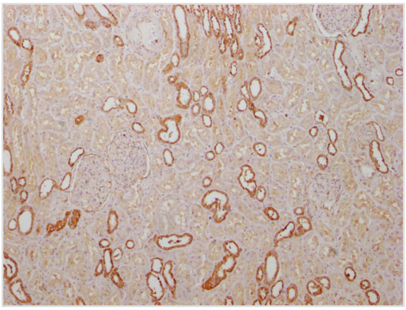
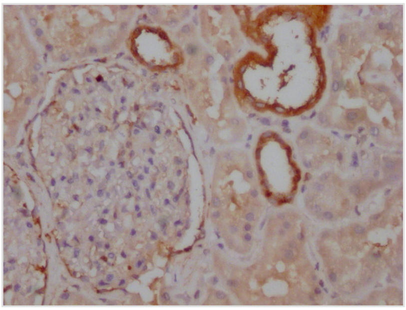


IHC image of CSB-MA018072A1m diluted at 1:1000 and staining in paraffin-embedded human kidney tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



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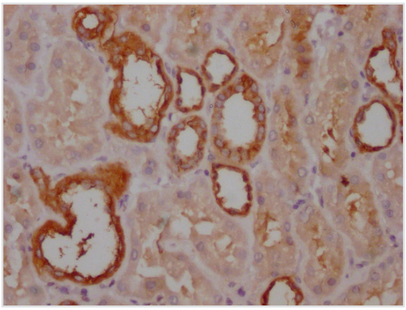

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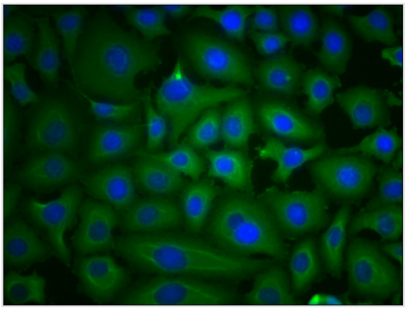
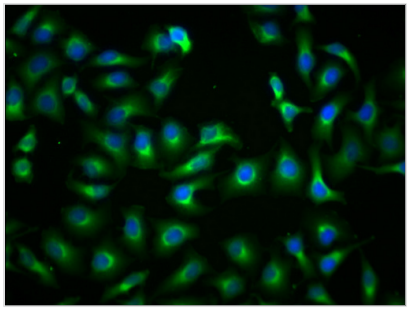
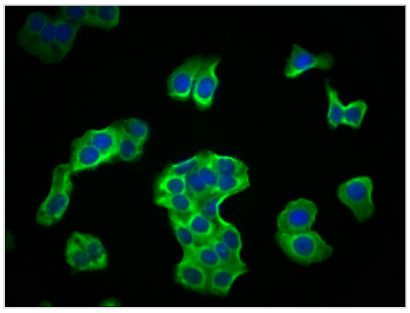


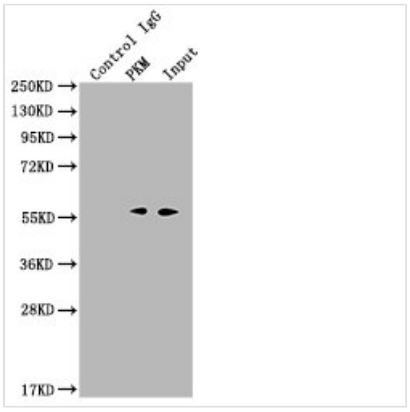
Immunofluorescence staining of A549 cells with CSB-MA018072A1m at 1:215, counter-stained with DAPI. The cells were blocked in 10% normal Goat Serum and then incubated with the primary antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Mouse IgG(H+L).



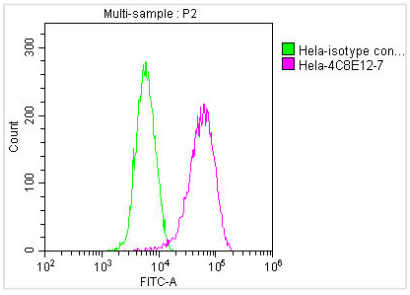
Immunofluorescence staining of Hela cells with CSB-MA018072A1m at 1:215, counter-stained with DAPI. The cells were blocked in 10% normal Goat Serum and then incubated with the primary antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Mouse IgG(H+L).



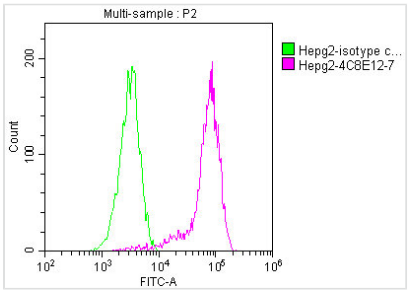
Immunofluorescence staining of HepG2 cells with CSB-MA018072A1m at 1:215, counter-stained with DAPI. The cells were blocked in 10% normal Goat Serum and then incubated with the primary antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunoprecipitating PKM in Hela whole cell lysate
Lane 1: Mouse control IgG instead of CSB-MA018072A1m in Hela whole cell lysate.
Lane 2: CSB-MA018072A1m (1.2ul) + Hela whole cell lysate (500ug)
Lane 3: Hela whole cell lysate (10ug)
For western blotting, the blot was detected with CSB-MA018072A1m at 1:2000, and a HRP-conjugated Protein G antibody was used as the secondary antibody at 1:2000



Overlay histogram showing Hela cells stained with CSB-MA018072A1m (red line) at 1:50. The cells were incubated in 1x PBS /10% normal goat serum to block non-specific protein-protein interactions followed by primary antibody for 1 h at 4°C. The secondary antibody used was FITC goat anti-mouse IgG(H+L) at 1/200 dilution for 1 h at 4°C. Isotype control antibody (green line) was used under the same conditions. Acquisition of >10,000 events was performed.



Overlay histogram showing HepG2 cells stained with CSB-MA018072A1m (red line) at 1:50. The cells were incubated in 1x PBS /10% normal goat serum to block non-specific protein-protein interactions followed by primary antibody for 1 h at 4°C. The secondary antibody used was FITC goat anti-mouse IgG(H+L) at 1/200 dilution for 1 h at 4°C. Isotype control antibody (green line) was used under the same conditions. Acquisition of >10,000 events was performed.

Usage	For Research Use Only. Not for use in diagnostic or therapeutic procedures.