# Data Sheet (Cat.No.TMAB-05912)

## Anti-FBP1 Polyclonal Antibody

### Product Details

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| Ig Type: | IgG |
| Reactivity: | Human,Mouse (predicted:Rat,Dog,Pig,Horse,Rabbit) |
| Molecular Weight: | Theoretical: 37 kDa. Actual: 40 kDa. |
| Purification: | Protein A purified |

### Applications

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| Verified Activity: | 1. Sample:<br>Lane 1: Mouse Kidney tissue lysates<br>Lane 2: Mouse Liver tissue lysates<br>Primary: Anti-FBP1 (TMAB-05912) at 1/1000 dilution<br>Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution<br>Predicted band size: 37 kDa<br>Observed band size: 40 kDa<br>2. MCF7 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 (FBP1) polyclonal Antibody, Unconjugated (TMAB-05912) 1:50, 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.<br>3. Blank control (black line): MCF-7.<br>Primary Antibody (green line): Rabbit Anti-FBP1 antibody (TMAB-05912)<br>Dilution: 1 µg/Test;<br>Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC<br>Dilution: 0.5 µg/Test.<br>Isotype control (orange line): Normal Rabbit IgG<br>Protocol<br>The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C, 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. Acquisition of 20,000 events was performed. |
| Application: | WB,ICC/IF,FCM |
| Recommended | WB: 1:500-2000; ICC/IF: 1:50-200; FCM: 1µg/Test |

### Properties

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| 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

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| Immunogen: | KLH conjugated synthetic peptide: human FBP1 |
| Antigen Species: | Human |
| Gene ID: | 2203 |
| Uniprot ID: | P09467 |

## Research Background

Fructose-1,6-bisphosphatase 1, a gluconeogenesis regulatory enzyme, catalyzes the hydrolysis of fructose 1,6-bisphosphate to fructose 6-phosphate and inorganic phosphate. Fructose-1,6-diphosphatase deficiency is associated with hypoglycemia and metabolic acidosis. [provided by RefSeq, Jul 2008]



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