

## Anti-GPC3 Antibody (2J984)

## Product Details

Ig Type:	IgG2a
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	2J984
Purification:	Protein G purified

## Applications

Verified Activity:	<p>1. Western Blot</p> <ul style="list-style-type: none"><li>-Positive WB detected in: GPC3 antibody at 1:1000</li><li>-Lane 1: Jurkat whole cell lysate</li><li>-Lane 2: Mouse liver tissue</li><li>-Secondary: Goat polyclonal to Mouse IgG at 1/20000 dilution</li><li>-Predicted band size: 65-70KDa</li><li>-Observed band size: 65-70 KDa</li><li>-Exposure time: 5min</li></ul> <p>2. Overlay Peak curve showing Jurkat cells stained with TMAH-00501 (red line) at 1:100. The cells were incubated in 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1µg/1*10<sup>6</sup>cells) for 1h at 4°C. The secondary antibody used was FITC-conjugated Goat Anti-Mouse IgG(H+L) at 1/100 dilution for 30min at 4°C. Isotype control antibody (green line) was mouse IgG1 (1µg/1*10<sup>6</sup>cells) used under the same conditions. Acquisition of &gt;10,000 events was performed.</p>
Application:	ELISA,FCM,WB

## Properties

Purity:	>95%
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:	Recombinant Protein: Human Glypican-3 Protein (25-559AA)
Antigen Species:	Human
Gene ID:	2719
Uniprot ID:	P51654
Synonyms:	DGSX;OCI-5;SGB;Glypican 3;SGBS;GTR2-2;SGBS1;MXR7;SDYS
Biology Area:	Neuroscience

## Research Background

Cell surface proteoglycan that bears heparan sulfate. Negatively regulates the hedgehog signaling pathway when

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attached via the GPI-anchor to the cell surface by competing with the hedgehog receptor PTC1 for binding to hedgehog proteins. Binding to the hedgehog protein SHH triggers internalization of the complex by endocytosis and its subsequent lysosomal degradation. Positively regulates the canonical Wnt signaling pathway by binding to the Wnt receptor Frizzled and stimulating the binding of the Frizzled receptor to Wnt ligands. Positively regulates the non-canonical Wnt signaling pathway. Binds to CD81 which decreases the availability of free CD81 for binding to the transcriptional repressor HHEX, resulting in nuclear translocation of HHEX and transcriptional repression. Inhibits the dipeptidyl peptidase activity of DPP4. Plays a role in limb patterning and skeletal development by controlling the cellular response to BMP4. Modulates the effects of growth factors BMP2, BMP7 and FGF7 on renal branching morphogenesis. Required for coronary vascular development. Plays a role in regulating cell movements during gastrulation.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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