Data Sheet (Cat.No.TMAH-00504)

TargetMol

Anti-GPC3 Antibody (5N458)

Product Details

Ig Type:	Mouse IgG2a
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	5N458
Purification:	Affinity-chromatography

Applications

Verified Activity:	Overlay Peak curve showing THP-1 cells surface stained with TMAH-00504 (red line) at 1:100. Then 10% normal goat serum was Incubated to block non-specific protein-protein interactions followed by the antibody (1μg/1*10^6 cells) for 45 min at 4°C. The secondary antibody used was FITC-conjugated Goat Anti-Mouse IgG(H+L) at 1/200 dilution for 35 min at 4°C. Isotype control antibody (green line) was mouse IgG1 (1μg/1*10^6 cells) used under the same conditions. Acquisition of >10, 010 events was performed.
Application:	ELISA,FCM
Recommended	FCM:1:20-1:500.

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:	Recombinant Protein: Human GPC3 Protein
Antigen Species:	Human
Gene ID:	2719
Uniprot ID:	P51654
Synonyms:	DGSX;Glypican 3;SGBS1;GTR2-2;SDYS;OCI-5;MXR7;SGBS;SGB
Biology Area:	Cancer, Developmental biology, Signal transduction, Stem cells

Research Background

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

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