Data Sheet (Cat.No.TMAH-00502)

Anti-GPC3 Antibody (4L576)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	4L576
Purification:	Affinity-chromatography

Applications

Verified Activity:	1. Western Blot -Positive WB detected in: 293 whole cell lysate, K562 whole cell lysate -All lanes: GPC3 antibody at 0.9μg/ml -Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution -Predicted band size: 66, 60, 69 KDa -Observed band size: 66 KDa 2. Immunofluorescence staining of HepG2 cells with TMAH-00502 at 1:30, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG (H+L).
Application:	ELISA, WB, IF
Recommended	WB:1:500-1:5000; IF:1:20-1:200.

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:	A synthetic peptide: Human GPC3
Antigen Species:	Human
Gene ID:	2719
Uniprot ID:	P51654
Synonyms:	GTR2-2;OCI-5;SDYS;DGSX;SGBS;SGB;Glypican 3;MXR7;SGBS1
Biology Area:	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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