

Anti-GPC3 / Glypican 3 Antibody
Rabbit Anti Human Polyclonal Antibody
Catalog # ALS17358

Specification

Anti-GPC3 / Glypican 3 Antibody - Product Information

Application	WB, IHC-P
Primary Accession	P51654
Predicted	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	65563
Dilution	WB~~1:1000 IHC-P~~N/A

Anti-GPC3 / Glypican 3 Antibody - Additional Information

Gene ID 2719

Alias Symbol **GPC3**

Other Names

GPC3, DGSX, Glypican proteoglycan 3, Glypican 3, Glypican-3, GTR2-2, Intestinal protein OCI-5, SGB, SGBS1, SGBS, MXR7, OCI-5, OCI5, SDYS, Secreted glypican-3, Heparan sulphate proteoglycan

Target/Specificity

Human GPC3 / Glypican 3

Reconstitution & Storage

PBS, pH 7.3, 0.02% sodium azide, 50% glycerol. Long term: -80°C; Short term: -20°C. Avoid freeze-thaw cycles.

Precautions

Anti-GPC3 / Glypican 3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-GPC3 / Glypican 3 Antibody - Protein Information

Name GPC3

Synonyms OCI5

Function

Cell surface proteoglycan (PubMed: <http://www.uniprot.org/citations/14610063>). 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 (By similarity). Binding to the hedgehog protein SHH triggers internalization of the complex by endocytosis and its subsequent lysosomal degradation (By

similarity). 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 (PubMed:16227623, PubMed:24496449). Positively regulates the non-canonical Wnt signaling pathway (By similarity). 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 (By similarity). Inhibits the dipeptidyl peptidase activity of DPP4 (PubMed:17549790). Plays a role in limb patterning and skeletal development by controlling the cellular response to BMP4 (By similarity). Modulates the effects of growth factors BMP2, BMP7 and FGF7 on renal branching morphogenesis (By similarity). Required for coronary vascular development (By similarity). Plays a role in regulating cell movements during gastrulation (By similarity).

Cellular Location

Cell membrane; Lipid-anchor, GPI-anchor {ECO:0000250|UniProtKB:P13265}; Extracellular side {ECO:0000250|UniProtKB:P13265}

Tissue Location

Detected in placenta (at protein level) (PubMed:32337544). Highly expressed in lung, liver and kidney

Anti-GPC3 / Glypican 3 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-GPC3 / Glypican 3 Antibody - Images