

Glypican 3
Mouse Monoclonal Antibody (Mab)
Catalog # APA291

Specification

Glypican 3 - Product Information

Application	IHC
Primary Accession	P51654
Host	Mouse
Clonality	Monoclonal
Calculated MW	65563 Da

Glypican 3 - Additional Information

Gene ID	2719
Gene Name	GPC3
Other Names	
Glypican-3, GTR2-2, Intestinal protein OCI-5, MXR7, Glypican-3 alpha subunit, Glypican-3 beta subunit, GPC3, OCI5	

Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Glypican 3 is for research use only and not for use in diagnostic or therapeutic procedures.

Glypican 3 - Protein Information

Name GPC3

Synonyms	OCI5
Function	Cell surface proteoglycan that bears heparan sulfate (PubMed: 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

Tissue Location

{ECO:0000250|UniProtKB:P13265} Highly expressed in lung, liver and kidney.

Glypican 3 - 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](#)

Glypican 3 - Images