

Anti-Glypican 3 Monoclonal Antibody

Catalog # ABO14387

Specification

Anti-Glypican 3 Monoclonal Antibody - Product Information

Application WB, FC **Primary Accession** P51654 **Rabbit** Host Isotype Rabbit IgG Reactivity Human Clonality Monoclonal **Format** Liquid

Description

Anti-Glypican 3 Monoclonal Antibody . Tested in WB, Flow Cytometry applications. This antibody reacts with Human.

Anti-Glypican 3 Monoclonal Antibody - Additional Information

Gene ID 2719

Other Names

Glypican-3, GTR2-2, Intestinal protein OCI-5, MXR7, Glypican-3 alpha subunit, Glypican-3 beta subunit, GPC3, OCI5

Application Details

WB 1:500-1:2000
FC 1:50

Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen

A synthesized peptide derived from human Glypican 3 Cell surface proteoglycan that bears heparan sulfate. Inhibits the dipeptidyl peptidase activity of DPP4. May be involved in the suppression/modulation of growth in the predominantly mesodermal tissues and organs.

Purification

Affinity-chromatography

Store at -20°C for one year. For short term Storage

storage and frequent use, store at 4°C for up to one month. Avoid repeated

freeze-thaw cycles.

Anti-Glypican 3 Monoclonal Antibody - Protein Information

Name GPC3



Synonyms OCI5

Function

Cell surface proteoglycan (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 {ECO:0000250|UniProtKB:P13265}

Tissue Location

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

Anti-Glypican 3 Monoclonal Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Glypican 3 Monoclonal Antibody - Images



