

GPC3 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP14822b**Specification**

GPC3 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [P51654](#)**GPC3 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 2719**Other Names**

Glypican-3, GTR2-2, Intestinal protein OCI-5, MXR7, Secreted glypican-3, GPC3, OCI5

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GPC3 Antibody (C-term) Blocking Peptide - 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

GPC3 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

GPC3 Antibody (C-term) Blocking Peptide - Images**GPC3 Antibody (C-term) Blocking Peptide - Background**

Cell surface heparan sulfate proteoglycans are composed of a membrane-associated protein core substituted with a variable number of heparan sulfate chains. Members of the glypican-related integral membrane proteoglycan family (GRIPS) contain a core protein anchored to the cytoplasmic membrane via a glycosylphosphatidylinositol linkage. These proteins may play a role in the control of cell division and growth regulation. The protein encoded by this gene can bind to and inhibit the dipeptidyl peptidase activity of CD26, and it can induce apoptosis in certain cell types. Deletion mutations in this gene are associated with Simpson-Golabi-Behmel syndrome, also known as Simpson dysmorphism syndrome. Alternative splicing results in multiple transcript variants.

GPC3 Antibody (C-term) Blocking Peptide - References

Lai, J.P., et al. Hepatology 52(5):1680-1689(2010) Sakurai, M., et al. Gynecol. Oncol. 119(2):332-336(2010) Zynger, D.L., et al. Histopathology 56(6):750-757(2010) Davoodi, J., et al. Proteomics 7(13):2300-2310(2007) Hsu, H.C., et al. Cancer Res. 57(22):5179-5184(1997)