



Recombinant Protein Technical Manual
Recombinant Human Glypican 5/GPC5 Protein (His
Tag)(Active)
RPES2283

Product Data:

Product SKU: RPES2283

Size: 50µg

Species: Human

Expression host: Baculovirus-Insect Cells

Uniprot: NP_004457.1

Protein Information:

Molecular Mass: 60.5 kDa

AP Molecular Mass: 60.5 kDa

Tag: C-His

Bio-activity: Measured by its binding ability in a functional ELISA. Immobilized human GPC5 at 5 µg/ml (100 µl/well) can bind human bFGF with a linear ranger of 0.156-2.5 ng/ml.

Purity: > 92 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile 50mM Tris, 100mM NaCl, pH 8.0

Reconstitution: Please refer to the printed manual for detailed information.

Application: Functional ELISA

Synonyms: GPC5;bA93M14.1;glypican proteoglycan 5;glypican-5

Immunogen Information:

Sequence: Met 1-Thr 554

Background:

Glypican-5 (GPC5), is a cell membrane protein which belongs to the glypican family. The glypicans compose a family of glycosylphosphatidylinositol-anchored heparan sulfate proteoglycans that may play a role in the control of cell division and growth regulation. So far, six members (Glypican/GPC1, Glypican-2/GPC2, Glypican-3/GPC3, Glypican-4/GPC4, Glypican-5/GPC5, Glypican-6/GPC6) of this family are known in vertebrates. In adult, Glypican-5 is primarily expressed in the brain. It is also detected in fetal brain, lung and liver. Glypican-5 enhances the intracellular signaling of FGF2 and HGF. It alters the cellular distribution of FGF2. The properties of Glypican-5 make it an attractive target for therapeutic intervention in rhabdomyosarcomas and other tumors that amplify and/or overexpress its gene. Glypican-5 is over-expressed in lymphoma cell lines that had shown amplification. It is a likely target for amplification, and that over-expression of GPC5 may contribute to development and/or progression of lymphomas and other tumors.