



Recombinant Protein Technical Manual

Recombinant Human Glypican 3/GPC3 Protein (His Tag)(Active)

RPES2429

Product Data:

Product SKU: RPES2429

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P51654

Protein Information:

Molecular Mass: 61.6 kDa

AP Molecular Mass: 7050&38 kDa

Tag: C-His

Bio-activity: Immobilized Human FGFb(Cat: PKSH032437) at 2µg/ml(100 µl/well) can bind Human GPC3-His. The ED50 of Human GPC3-His is 0.23 ug/ml .

Purity: > 95% as determined by reducing SDS-PAGE.

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

Storage: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°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 a 0.2 µm filtered solution of PBS, pH7.4.

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

Application: Functional ELISA

Synonyms: DGSX;Glypican 3;GTR2-2;MXR7;OCI-5;SDYS;SGB;SGBS;SGBS1

Immunogen Information:

Sequence: Gln25-His559

Background:

Glypican-3/GPC3 is a member of the glypican family. It belongs to the glypican family and is highly expressed in lung, liver, and kidney. It is a heparan sulfate proteoglycan, which is overexpressed in various neoplasms such as hepatocellular carcinoma, malignant melanoma, and testicular yolk sac tumor, and plays an important role in cell growth and differentiation. GPC3 function is tissue dependent. In some tissues, GPC3 acts as a tumor suppressor gene, whereas in others, it acts as an oncofetal protein. GPC3 is a reliable marker for hepatocellular carcinoma. The sensitivity and specificity exceeds both alpha-fetoprotein and hepatocyte-paraffin¹. GPC3 immunohistochemistry can aid in the differentiation of testicular germ cell tumors, being expressed in all yolk sac tumors but not in seminomas. GPC3 expression has also been identified in some squamous cell carcinomas of the lung and clear cell carcinomas of the ovary. Glypican-3 is currently regarded as a tumor marker and potential target for immunotherapy.