

32-7372: Recombinant Human Glypican 3/GPC3/OCI5 (C-6His)

Gene : GPC3
Gene ID : 2719
Uniprot ID : P51654

Description

Source: Human Cells.
MW :61.6kD.

Recombinant Human Glypican-3 is produced by our Mammalian expression system and the target gene encoding Gln25-His559 is expressed with a 6His tag at the C-terminus. 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.

Product Info

Amount : 10 µg / 50 µg
Content : Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.
Storage condition : 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.
Amino Acid : QPPPPPDATCHQVRSFFQRLQPGLKWVPETVPGSDLQVCLPKGPTCCSRKMEEKYQLTARLNMEQLQSAS
MELKFLIIQNAAVFQEA FEIVVRHAKNYTNAMFKNNYPSLTPQAFEFVGEFFTDVSLYLGSDINVDDMVNELFDS
LFPVIYTQLMNPGLPDSALDINECLRGARRDLKVFNGFPKLIMTQVSKSLQVTRIFLQALNLGIEVINTTDHLKFSK
DCGRMLTRMWYCSYCQGLMMVKPCGGYCNVVMQGC MAGVVEIDKYWREYILSLEELVNGMYRIYDMENVLL
GLFSTIHDSIQYVQKNAGKLT TTTIGKLCAHSQQRQYRSAYYPEDLFIDKKVLKVAHVEHEETLSSRRRELIQKLKS
FISFYALPGYICSHSPAENDTLCWNGQELVERYSQKAARNGMKNQFNLHELKMKGPPEPVVSQIIDKLNHINQ
LLRTMSMPKGRVLDKNLDEEGFESGDCGDDDEDECIGSGDGMKVKVKNQLRFLAELAYDLDDVDDAPGNSQQAT
PKDNEISTFHN LGNVHHHHHHH

Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH₂O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Endotoxin : Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.