For Research Use Only

Glypican 3 Polyclonal antibody

Catalog Number:25175-1-AP 10 Publications

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Basic Information

Catalog Number:
25175-1-AP

Size:
550 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG10129

GenBank Accession Number:
BC035972

GeneID (NCBI):
2719

UNIPROT ID:
P51654

Full Name:
glypican 3

Calculated MW:
580 aa, 66 kDa

Observed MW:
66 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:1000

Applications

Tested Applications:
WB, ELISA

Cited Applications:
IF, IP, WB

Species Specificity:
human

Cited Species:
human, mouse

Positive Controls:

WB : HepG2 cells, HEK-293 cells, HEK-293 cell line

Background Information

Glypicans (GPCs) are a family of glycosylphosphatidylinositol (GPI)-anchored heparan sulphate proteoglycans (HSPGs) that may play a role in the control of cell division and growth regulation. In mammals, there are six GPCs (GPC1 to GPC6), all of which have a similar core-protein size of approx. 60 kDa and the clustering of glycosaminoglycan attachment site near the C-terminus. They are tethered to the cell surface by GPI linkages, which can be cleaved by endogenous phospholipases, thus releasing the protein. Glypican 3 (GPC3) is highly expressed in many tissues during development and plays an important role in the regulation of embryonic growth (PMID: 22467855). Loss-of-function mutations of GPC3 result in the Simpson-Golabi-Behmel overgrowth syndrome (SGBS), and Gpc-3 null mice display developmental overgrowth (PMID: 8589713; 18477453). In hepatocellular carcinoma (HCC), the overexpression of glypican 3 has been demonstrated to be a reliable diagnostic indicator (PMID: 19212669; 22706665). The calculated molecular weight of native glypican 3 is 66 kDa, glycanated forms of glypican 3 have higher molecular weights than 66 kDa (PMID: 12851874; 16024626; 19574424).

Notable Publications

Author	Pubmed ID	Journal	Application
Xiaoqing Zheng	28965082	Redox Biol	WB
Samuel C Mok	36139670	Cancers (Basel)	WB
Yuhei Iwasa	36359563	Diagnostics (Basel)	

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
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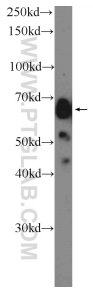
Selected Validation Data



HepG2 cells were subjected to SDS PAGE followed by western blot with 25175-1-AP (Glypican 3 antibody at dilution of 1:600 incubated at room temperature for 1.5 hours.

HEK-293 cells were subjected to SDS PAGE followed by western blot with 25175-1-AP (Glypican 3 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.