

Glypican 4 Polyclonal Antibody

Catalog number: 13048-1-AP

Size: 20 µg/150 µl

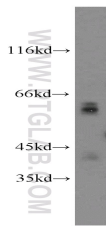
Source: Rabbit

Isotype: IgG

Synonyms:

GPC4; Glypican 4, Glypican 4/6,

GPC4, GPC4/6, K glypican



A549 cells were subjected to SDS PAGE followed by western blot with 13048-1-AP (GPC4 antibody) at dilution of 1:200

Background

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. Human GPC4 is a 556-amino acid protein, and shows 93.5% identity to mouse K-glypican. The gene of GPC4 has been mapped to Xq26, and its mRNA is widely expressed in human tissues, including lung, kidney, heart, placenta, skeletal muscle, and pancreas. GPC4 has also been shown to be present in astrocytes, haematopoietic-progenitor and bone-marrow-stromal cells. Studies suggest that GPC4 is involved in the regulation of Wnt signaling and astrocyte GPC4 plays a role in formation of excitatory synapses. This antibody can recognize both full length (65 kDa) and cleaved (35 kDa) GPC4 as well as GPC6. (PMID: 9931407; 10585884; 22302992; 22722203)

Applications

Tested applications:	ELISA, WB
Cited applications:	WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Cited species:	Mouse
Calculated Glypican 4 MW:	556aa, 62 kDa
Observed Glypican 4 MW:	62 kDa
Positive WB detected in	A549 cells, human brain tissue, mouse kidney tissue
Recommended dilution:	WB: 1:200-1:2000

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag3670
GenBank accession number:	BC017166
Gene ID (NCBI):	2239
Full name:	Glypican 4

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.