

Product datasheet for **AP51901PU-N**

Glypican 2 (GPC2) (N-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	ELISA: 1/1,000. Western blotting: 1/100-1/500.
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 136-165 amino acids from the N-terminal region of Human GPC2 (NP_689955.1)
Specificity:	Recognizes GPC2 (N-term).
Formulation:	PBS with 0.09% (W/V) Sodium Azide as preservative State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein A column followed by peptide Affinity purification
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	glypican 2
Database Link:	Entrez Gene 71951 Mouse Entrez Gene 221914 Human Q8N158



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Background:

The glypicans (GPC) constitute a family of heparan sulfate proteoglycans that are attached to the cell surface by a lysosylphosphatidylinositol (GPI) anchor. Six members of this family have been identified in mammals (GPC1-GPC6).

All glypican core proteins contain an N-terminal signal peptide, a large globular cysteine rich domain (CRD) with 14 invariant cysteine residues, a stalklike region containing the heparan sulfate attachment sites, and a C-terminal GPI attachment site. Based on the degree of their amino acid sequence similarity, two subfamilies of glypicans have been defined. One subfamily (sharing from 35-63% sequence homology) includes GPC1, 2, 4, and 6, while the second subfamily (sharing 54% sequence identity) includes GPC3 and 5. Proteins between the two subfamilies also share 17-25% sequence similarity (1-4).

Glypicans are widely expressed in adult and fetal tissues. During embryonic development, the expression level of the various glypicans changes in a stage and tissue specific manner. GPC2, also known as cerebroglycan, is primarily expressed in developing neuronal tissues including the brain, spinal cord, dorsal root ganglia, and cranial nerves. It is found on the tracts of actively growing axons (5). Cell surface GPC2 binds midkine, indicating midkine GPC2 interaction may participate in neuronal cell migration and neurite outgrowth (6).

Synonyms:

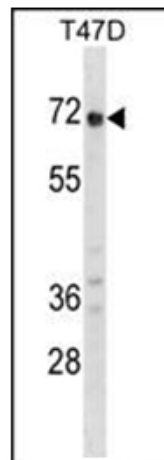
GPC2

Note:

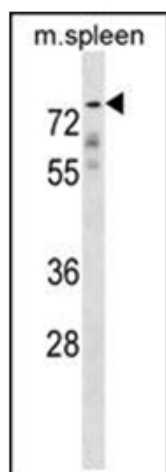
Molecular Weight: 62830 Da

Protein Families:

Druggable Genome

Product images:


Western blot analysis of GPC2 Antibody (N-term) in T47D cell line lysates (35 ug/lane). This demonstrates the GPC2 antibody detected the GPC2 protein (arrow).



Western blot analysis of GPC2 Antibody (N-term) in Mouse spleen tissue lysates (35 ug/lane). This demonstrates the GPC2 antibody detected the GPC2 protein (arrow).