Datasheet for ABIN952586

anti-GPC2 antibody (N-Term)

2 Images

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Overview

Quantity:	0.4 mL
Target:	GPC2
Binding Specificity:	AA 136-165, N-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GPC2 antibody is un-conjugated
Application:	Western Blotting (WB), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	KLH conjugated synthetic peptide between 136-165 amino acids from the N-terminal region of Human GPC2 (NP_689955.1) Genename: GPC2
Isotype:	Ig Fraction
Specificity:	Recognizes GPC2 (N-term).
Purification:	Protein A column followed by peptide Affinity purification

Target Details

Target:	GPC2
Alternative Name:	GPC2 (GPC2 Products)
Background:	The glypicans (GPC) constitute a family of heparan sulfate proteoglycans that are attached to

Target Details

	the cell surface by a lycosylphosphatidylinositol (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: Glypican-2
Gene ID:	221914
NCBI Accession:	NP_689955
Pathways:	Glycosaminoglycan Metabolic Process

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

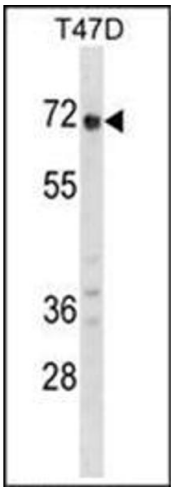
Handling

Format:	Liquid
Concentration:	0.25 mg/mL
Buffer:	PBS with 0.09 % (W/V) Sodium Azide as preservative
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.

Handling

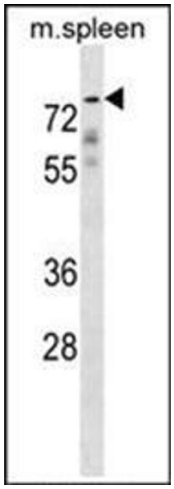
Storage:	4 °C/-20 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.

Images



Western Blotting

Image 1. Western blot analysis of GPC2 Antibody (N-term) Cat.-No AP51901PU-N in T47D cell line lysates (35 µg/lane). This demonstrates the GPC2 antibody detected the GPC2 protein (arrow).



Western Blotting

Image 2. Western blot analysis of GPC2 Antibody (N-term) Cat.-No AP51901PU-N in Mouse spleen tissue lysates (35 µg/lane). This demonstrates the GPC2 antibody detected the GPC2 protein (arrow).