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Datasheet for ABIN349638 anti-GPC1 antibody (Internal Region)

Image



Overview

Quantity:	100 µg
Target:	GPC1
Binding Specificity:	Internal Region
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GPC1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	This protein A purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region of human glypican-1 protein.
	Immunogen Type: Peptide
lsotype:	lgG
Specificity:	This product was protein A purified from monospecific antiserum by immunoaffinity chromatography using protein A coupled to agarose beads. This antibody is specific for human glypican-1 protein. A BLAST analysis was used to suggest partial cross-reactivity with glypican from rat, mouse, Macaque, dog, cattle, and opossum sources based on 100 - 88% homology with the immunizing sequence. Cross-reactivity with glypican from other sources has not been determined.

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Product Details	
Cross-Reactivity:	Mouse (Murine), Rat (Rattus)
Characteristics:	This antibody is designed, produced, and validated as part of a collaboration with the National
	Cancer Institute (NCI) and is suitable for Cancer, Immunology and Nuclear Signaling research.
	Glypican-1 (also known as GPC1 or FLJ38078) is a member of the glypican-related integral
	membrane proteoglycan family (GRIPS). This protein is a heparan sulfate proteoglycan which is
	composed of a membrane-associated protein core substituted with a variable number of
	heparan sulfate chains and are anchored to the cell surface via a covalent linkage to
	glycosylphosphatidlyinositol (GPI). Glypicans can modify cell signaling pathways and contribute
	to cellular proliferation and tissue growth. In humans, glypican-1 is over expressed in breast and
	brain cancers (gliomas). All glypicans contain an N-terminal signal peptide and a hydrophobic
	domain in their C-terminal region which is required for attachment of the GPI anchor. The
	amino acid sequences of the six vertebrate glypican family members vary from 17% to 63%
	identity. The location of 14 cysteine amino acids is conserved between the glypicans,
	suggesting the existence of a highly similar three-dimensional structure. Heparan sulfate
	glycosaminoglycan chains are attached at the 50 amino acids at the C-terminal end of the
	protein, near the anchor and the cell membrane. Glypican functions as coreceptor for a variety
	of growth factors. Glypican-1 has been shown to interact with SLIT2.
Sterility:	Sterile filtered
Target Details	

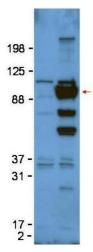
Target:	GPC1
Alternative Name:	Glypican-1 (GPC1 Products)
Background:	Glypican-1 antibody is designed, produced, and is suitable for Cancer, Immunology and Nuclear
	Signaling research. Glypican-1 (also known as GPC1 or FLJ38078) is a member of the glypican-
	related integral membrane proteoglycan family (GRIPS). This protein is a heparan sulfate
	proteoglycan which is composed of a membrane-associated protein core substituted with a
	variable number of heparan sulfate chains and are anchored to the cell surface via a covalent
	linkage to glycosylphosphatidlyinositol (GPI). Glypicans can modify cell signaling pathways and
	contribute to cellular proliferation and tissue growth. In humans, glypican-1 is over expressed in
	breast and brain cancers (gliomas). All glypicans contain an N-terminal signal peptide and a
	hydrophobic domain in their C-terminal region which is required for attachment of the GPI
	anchor. The amino acid sequences of the six vertebrate glypican family members vary from
	17% to 63% identity. The location of 14 cysteine amino acids is conserved between the
	glypicans, suggesting the existence of a highly similar three-dimensional structure. Heparan

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Target Details

	sulfate glycosaminoglycan chains are attached at the 50 amino acids at the C-terminal end of
	the protein, near the anchor and the cell membrane. Glypican functions as coreceptor for a
	variety of growth factors. Glypican-1 has been shown to interact with SLIT2.
	Synonyms: Glypican-1 Secreted glypican-1 GPC1 FLJ38078
Gene ID:	2817, 30410985
UniProt:	P35052
Pathways:	Glycosaminoglycan Metabolic Process, Regulation of Muscle Cell Differentiation
Application Details	
Application Notes:	Anti-Glypican-1 protein A purified antibody has been tested for use in ELISA and western
	blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band
	approximately \sim 61 kDa in size corresponding to glypican by western blotting in the appropriate
	cell lysate or extract. The higher molecular weight (110kDa) of transfected Fc-glypican
	compared with the expected MW of glypican is likely due to the presence of the Fc-tag.
Comment:	Gene Name: GPC1
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	2.1 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage Comment:	Store vial at 4 °C prior to restoration. For extended storage aliquot contents and freeze at -20 °C
	or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after
	standing at room temperature. This product is stable for several weeks at 4 °C as an undiluted
	liquid. Dilute only prior to immediate use. Expiration date is three (3) months from date of
	opening.
Expiry Date:	3 months

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Western Blotting

Image 1. Western Blot of Rabbit anti-Glypican-1 antibody. Lane 1: untransfected 293T cell lysate. Lane 2: 293T whole cell lysate. Load: 50ug per lane. Primary antibody: Glypican-1 antibody at 1:1000 for overnight at 4°C. Secondary antibody: HRP Gt-a-Rabbit IgG diluted 1:5,000 at 4° C. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 61kDa, 61kDa for Glypican-1. Other band(s): 110kDa is likely due to the presence of the Fc-tag. Minor bands may represent post translational modifications of glypican-1.

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