

## ARG56019 anti-Glypican 3 antibody [1G12]

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody [1G12] recognizes Glypican 3
Tested Reactivity	Hu
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Clone	1G12
Isotype	IgG1, kappa
Target Name	Glypican 3
Species	Human
Immunogen	Recombinant fragment around aa. 511-580 of Human Glypican-3 protein.
Conjugation	Un-conjugated
Alternate Names	SGBS1; DGSX; Glypican-3; Intestinal protein OCI-5; GTR2-2; SGB; OCI-5; SDYS; MXR7; SGBS

### Application Instructions

Application table	Application	Dilution
	FACS	1 - 2 µg/10 <sup>6</sup> cells
	ICC/IF	2 - 5 µg/ml
	IHC-P	2 - 5 µg/ml
	WB	1 - 2 µg/ml
Application Note	IHC-P: Antigen Retrieval: Boil tissue section in 10 mM Tris with 1 mM EDTA (pH 9.0) for 10-20 min, followed by cooling at RT for 20 min. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	HepG2	
Observed Size	~ 65 kDa	

### Properties

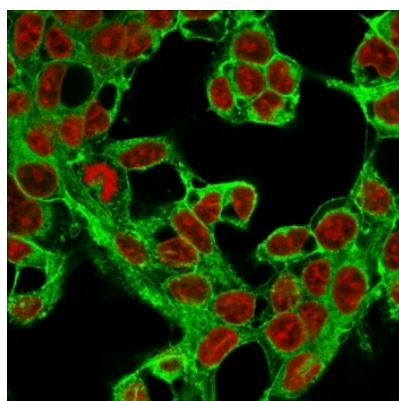
Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 0.05% Sodium azide and 0.1 mg/ml BSA
Preservative	0.05% Sodium azide

Stabilizer	0.1 mg/ml BSA
Concentration	0.2 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

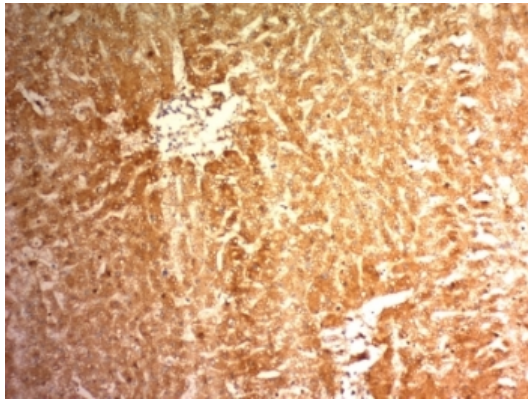
Database links	<a href="#">GeneID: 2719 Human</a> <a href="#">Swiss-port # P51654 Human</a>
Gene Symbol	GPC3
Gene Full Name	glypican 3
Background	Cell surface heparan sulfate proteoglycans are composed of a membrane-associated protein core substituted with a variable number of heparan sulfate chains. Members of the glypican-related integral membrane proteoglycan family (GRIPS) contain a core protein anchored to the cytoplasmic membrane via a glycosyl phosphatidylinositol linkage. These proteins may play a role in the control of cell division and growth regulation. The protein encoded by this gene can bind to and inhibit the dipeptidyl peptidase activity of CD26, and it can induce apoptosis in certain cell types. Deletion mutations in this gene are associated with Simpson-Golabi-Behmel syndrome, also known as Simpson dysmorphism syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2009]
Function	Cell surface proteoglycan that bears heparan sulfate. Inhibits the dipeptidyl peptidase activity of DPP4. May be involved in the suppression/modulation of growth in the predominantly mesodermal tissues and organs. May play a role in the modulation of IGF2 interactions with its receptor and thereby modulate its function. May regulate growth and tumor predisposition. [UniProt]
Calculated Mw	66 kDa
Cellular Localization	Cytoplasmic

## Images



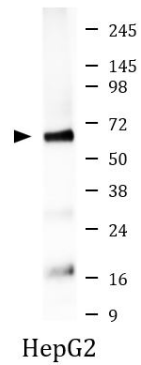
ARG56019 anti-Glypican 3 antibody [1G12] ICC/IF image

Immunofluorescence: Methanol-fixed HepG2 cells stained with ARG56019 anti-Glypican 3 antibody [1G12] (green). Reddot (red) for nuclear staining.



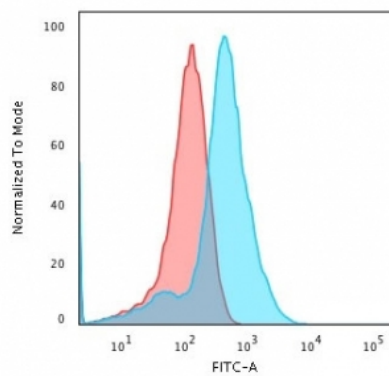
ARG56019 anti-Glypican 3 antibody [1G12] IHC-P image

Immunohistochemistry: Formalin-fixed, paraffin-embedded Human hepatocellular carcinoma stained with ARG56019 anti-Glypican 3 antibody [1G12].



ARG56019 anti-Glypican 3 antibody [1G12] WB image

Western blot: HepG2 cell lysate stained with ARG56019 anti-Glypican 3 antibody [1G12].



ARG56019 anti-Glypican 3 antibody [1G12] FACS image

Flow Cytometry: Methanol-fixed HepG2 cells stained with ARG56019 anti-Glypican 3 antibody [1G12] (blue); Isotype control (red).