

anti-Human Glypican 3 Antibody | anti-GPC3 antibody

Anti-Glypican 3 [4G7]

CATALOG # AAA72396	REACTIVITY Human	APPLICATIONS Immunohistochemistry, ELISA, Flow Cytometry, Functional Assay
------------------------------	----------------------------	--

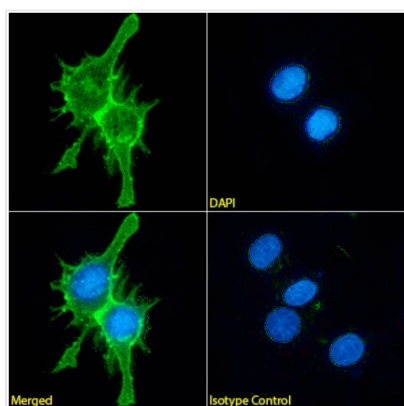
PRODUCT SYNONYMS

Glypican 3; Anti-Glypican 3 [4G7]; GPC3; Glypican-3; GPC-3; GTR2-2; MXR7; OCI5; DGSX; Intestinal protein OCI-5; anti-GPC3 antibody

PRODUCT SPECIFICATIONS

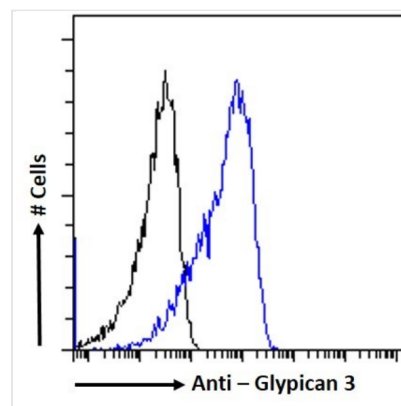
Reactivity	Human
Isotype	Mouse IgG1 kappa
Clone Number	4G7
Specificity	This antibody binds an epitope spanning the furin cleavage site at amino acids R358/S359 of human GPC3. Glypican-3 is an oncofetal antigen that belongs to the glypican family of glycosyl-phosphatidylinositol-anchored heparin sulfate proteoglycans. It negatively regulates the hedgehog signaling pathway and positively regulates the canonical Wnt signaling pathway. Multiple studies have revealed that GPC-3 is overexpressed in hepatocellular carcinoma (HCC).
Purity/Purification	Purified. Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-GPC3 antibody	IHC (Immunohistochemistry), ELISA, FCM/FACS (Flow Cytometry)
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.

IMAGES



IF (Immunofluorescence)

Immunofluorescence staining of HepG2 cells with anti-Glypican 3 antibody 4G7 . Immunofluorescence analysis of paraformaldehyde fixed HepG2 cells on Shi-fix™ coverslips stained with the chimeric rabbit IgG version of 4G7 (1:100 dilution) for 1h followed by Alexa Fluor 488 secondary antibody (1:1000 dilution), showing membrane staining. The nuclear stain is DAPI (blue). Panels show, from left-right, top-bottom,, DAPI, merged channels, and an isotype control. The isotype control was an unknown specificity antibody followed by staining with Alexa Fluor 488 secondary antibody.



FCM/FACS (Flow Cytometry)

Flow cytometry using anti-Glypican 3 antibody 4G7 . HepG2 cells were stained with the anti-unknown specificity antibody (isotype control, black line) or the rabbit IgG version of 4G7 at a dilution of 1:100 for 1h at RT. After washing, the bound antibody was detected using a goat anti-rabbit IgG AlexaFluor 488 antibody at a dilution of 1:1000, and the cells were analyzed using a FACSCanto flow-cytometer.

ADDITIONAL INFORMATION

Related Product Information for anti-GPC3 antibody	The original antibody was generated by immunizing BALB/c mice with a recombinant human GPC3 extracellular domain (ECD, amino acids of 1-547) fused to a C-terminal DYKDDDDK (RADYKDDDDK).
Product Categories/Family for anti-GPC3 antibody	cancer ; hepatocellular carcinoma ; oncology ; tumor ; signaling pathway

NCBI AND UNIPROT INFORMATION

NCBI GI #	257471010
NCBI GeneID	2719
NCBI Accession #	NP_001158091.1
NCBI GenBank Nucleotide #	NM_001164619.1
UniProt Accession #	P51654 ; Q2L880 ; Q2L882 ; C9JLE3 ; G3V1R0
Molecular Weight	65,563 Da
NCBI Official Full Name	glypican-3 isoform 4
NCBI Official Synonym Full Names	glypican 3
NCBI Official Symbol	GPC3
NCBI Official Synonym Symbols	SGB; DGSX; MXR7; SDYS; SGBS; OCI-5; SGBS1; GTR2-2
NCBI Protein Information	glypican-3; secreted glypican-3; glypican proteoglycan 3; intestinal protein OCI-5; heparan sulphate proteoglycan
UniProt Protein Name	Glypican-3
UniProt Gene Name	GPC3
UniProt Synonym Gene Names	OCI5
UniProt Entry Name	GPC3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/human-antibody/glypican-3/72396>