

Glypican 3 Antibody | anti-GPC3 antibody

Anti-Glypican 3 [15G1]

CATALOG # AAA72398	REACTIVITY Human, Cynomolgus Monkey, Rat	APPLICATIONS Immunohistochemistry, ELISA, Flow Cytometry, Functional Assay
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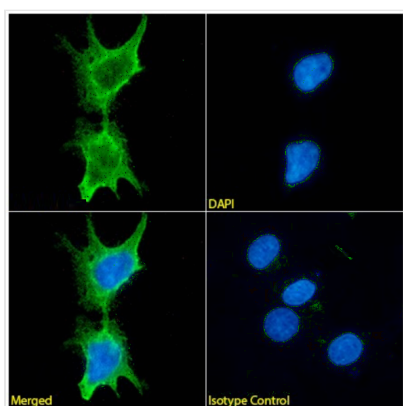
PRODUCT SYNONYMS

Glypican 3; Anti-Glypican 3 [15G1]; GPC3; Glypican-3; GPC-3; GTR2-2; MXR7; OCI5; DGSX; Intestinal protein OCI-5; anti-GPC3 antibody

PRODUCT SPECIFICATIONS

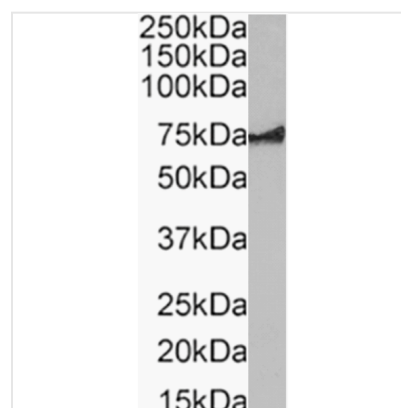
Reactivity	Human, Cynomolgus Monkey, Rat
Isotype	Mouse IgG1 kappa
Clone Number	15G1
Specificity	This antibody binds an epitope between amino acids 420 to 470 of the human glypican 3 (GPC3). This antibody cross reacts with cynomolgus monkey and rat GPC3. Glypican-3 is an oncofetal antigen that belongs 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



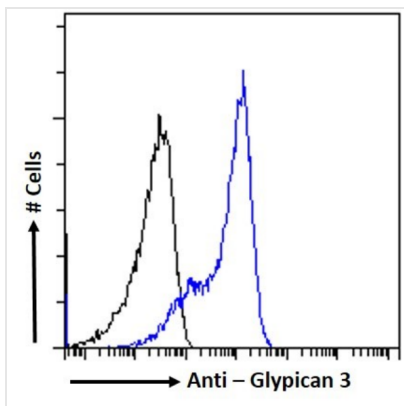
IF (Immunofluorescence)

Immunofluorescence staining of HepG2 cells with anti-Glypican 3 antibody 15G1 . Immunofluorescence analysis of paraformaldehyde fixed HepG2 cells on Shi-fix™ coverslips stained with the chimeric rabbit IgG version of 15G1 (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.



WB (Western Blot)

Western blot using anti-Glypican 3 antibody 15G1 . HepG2 cells lysate (35ug protein in RIPA buffer) was resolved on an SDS-PAGE gel, and blots were probed with the chimeric rabbit version of 15G1 at 0.1ug/ml before detection using an anti-rabbit secondary antibody. A primary incubation of 1 hour was used, and protein was detected by chemiluminescence.



FCM/FACS (Flow Cytometry)

Flow cytometry using anti-Glypican 3 antibody 15G1 . HepG2 cells were stained with the anti-unknown specificity antibody (isotype control, black line) or the rabbit IgG version of 15G1 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.