Data Sheet (Cat.No.TMAY-00147A)

Anti-Glypican 3/GPC3 Antibody-APC (4J109)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	APC
Clone:	4J109
Purification:	Protein A

Applications

Verified Activity:	Flow cytometric analysis of Human GPC3 expression on HepG2 cells. Cells were stained with APC-conjugated anti-Human GPC3. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.
Application:	FCM
Recommended	10 µl/Test, 0.1 mg/ml

Properties

Stability & Storage:	Store at 2°C-8°C for 12 months, do not freeze. Keep away from direct sunlight. Sodium azide is toxic to cells and should be disposed of properly. Flush with large volumes of water during disposal.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	A synthetic peptide: center region of the Human Glypican 3 / GPC3 / OCI-5
Antigen Species:	Human
Synonyms:	OCI-5;SGBS;MXR7;SDYS;DGSX;SGBS1;GTR2-2;SGB;Glypican 3
Biology Area:	Cancer Drug Targets

Research Background

Glypican-3, also known as Intestinal protein OCI-5, GPC3, and OCI5, is a member of the glypican family. It belongs to the glypican family and is highly expressed in the lung, liver, and kidney. It is a heparan sulfate proteoglycan, which is overexpressed in various neoplasms such as hepatocellular carcinoma, malignant melanoma, and testicular yolk sac tumor, and plays an important role in cell growth and differentiation. GPC3 function is tissue-dependent. In some tissues, GPC3 acts as a tumor suppressor gene, whereas in others, it acts as an oncofetal protein. Studies have shown that GPC3 is a reliable marker for hepatocellular carcinoma. The sensitivity and specificity exceed both alpha-fetoprotein and hepatocyte-paraffin1. GPC3 immunohistochemistry can aid in the differentiation of testicular germ cell tumors, being expressed in all yolk sac tumors but not in seminomas. GPC3 expression has also been identified in some squamous cell carcinomas of the lung and clear cell carcinomas of the ovary. The role of GPC3 in melanomas is still controversial. Thus, Glypican-3 is currently regarded as a tumor marker and potential target for immunotherapy.Cancer ImmunotherapyImmune CheckpointImmunotherapyTargeted Therapy

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481