

Anti-ASGR1 Antibody (3Z697)

Product Details

Ig Type:	Mouse IgG1
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	3Z697
Purification:	Protein A

Applications

Verified Activity:	Flow cytometric analysis of Human Asialoglycoprotein Receptor expression on HepG2 cells. Cells were stained with purified anti-Human Asialoglycoprotein Receptor, then a FITC-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.
Application:	FCM
Recommended	FCM: 1:25-1:100

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human ASGPR1 Protein (TMPY-02702)
Antigen Species:	Human
Synonyms:	ASGPR;CLEC4H1;HL-1;ASGPR1;asialoglycoprotein receptor 1

Research Background

The asialoglycoprotein receptor (ASGPR), an endocytotic cell surface receptor expressed by hepatocytes, is triggered by triantennary binding to galactose residues of macromolecules such as asialoorosomuroid (ASOR). ASGPR belongs to the long-form subfamily of the C-type/Ca²⁺ dependent lectin family. It is a complex of two noncovalently-linked and highly homologous subunits, a major 42 kDa glycoprotein ASGPR1(MHL-1) and a minor 51 kDa glycoprotein ASGR2 (MHL-2). ASGPR1 is synthesized as a type II transmembrane protein that contains a cytosolic N-terminal domain, a single transmembrane segment, and an extracellular domain which contains two important structural regions. The first is a stalk domain that contributes to noncovalent oligomerization, and the second is a Ca²⁺-dependent carbohydrate binding domain at the very C-terminus that is unusually stabilized by three ions. The research regarded that ASGPR1 could be targeted for anti- hepatitis B virus (HBV) drug development.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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