

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ASGR2 in direct ELISAs.
Source	Recombinant Monoclonal Rabbit IgG Clone # 2327C
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human ASGR2 Gln80-Ala311 Accession # P07307
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

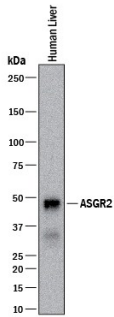
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	2 µg/mL	See Below
Flow Cytometry	0.25 µg/10 ⁶ cells	See Below
Immunohistochemistry	1-25 µg/mL	See Below

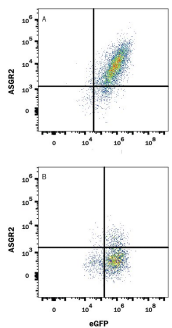
DATA

Western Blot



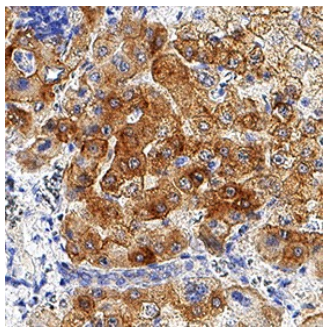
Detection of Human ASGR2 by Western Blot. Western blot shows lysates of human liver tissue. PVDF membrane was probed with 2 µg/mL of Rabbit Anti-Human ASGR2 Monoclonal Antibody (Catalog # MAB9970) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for ASGR2 at approximately 45 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Flow Cytometry



Detection of ASGR2 in HEK293 Human Cell Line Transfected with Human ASGR2 and eGFP by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with (A) human ASGR2 or (B) irrelevant transfectants and eGFP was stained with Mouse Anti-Human ASGR2 Monoclonal Antibody (Catalog # MAB9970) followed by APC-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # F0111). Quadrant markers were set based on control antibody staining (Catalog # MAB1050). View our protocol for [Staining Membrane-associated Proteins](#).

Immunohistochemistry



ASGR2 in Human Liver. ASGR2 was detected in immersion fixed paraffin-embedded sections of human liver using Rabbit Anti-Human ASGR2 Monoclonal Antibody (Catalog # MAB9970) at 1 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Rabbit IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC003). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm in hepatocytes. View our protocol for [IHC Staining with VisUCyte HRP Polymer Detection Reagents](#).

PREPARATION AND STORAGE

Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C, as supplied. • 1 month, 2 to 8 °C under sterile conditions after opening. • 6 months, -20 to -70 °C under sterile conditions after opening.

BACKGROUND

Asialoglycoprotein receptor 2 (ASGR2) is a subunit of the Asialoglycoprotein receptor. The asialoglycoprotein receptor is a hetero-oligomeric protein composed of major and minor subunits, which are encoded by different genes. The protein encoded by this gene is the less abundant minor subunit. The asialoglycoprotein receptor may facilitate hepatic infection by multiple viruses including hepatitis B, and is also a target for liver-specific drug delivery. Expressed on hepatocytes, the Asialoglycoprotein receptor mediates endocytosis and lysosomal degradation of glycoproteins to mediate serum glycoprotein homeostasis. The ASGR receptor binds plasma glycoproteins which have had the terminal sialic acid residue removed. An alternatively spliced variant, H2, which can be shed, has been proposed as a marker for liver fibrosis.