**BACKGROUND**

The asialoglycoprotein receptor (ASGPR, also designated hepatic lectin) is a type II integral membrane protein and is expressed in hepatic cells. ASGPR is composed of two homologous subunits, ASGPR1 and ASGPR2, that form multimeric complexes. Both ASGPR1 and ASGPR2 contain four functional domains, which include a cystosolic domain, a transmembrane domain, a stalk domain and a carbohydrate recognition domain (CRD). The CRD allows ASGPR to bind glycoproteins with terminal galactose and N-acetylgalactosamine residues while in the presence of calcium. After binding, the ASGPR-glycoprotein complex is then internalized into the cell, where the receptor and ligand are dissociated and ASGPR returns to the cell membrane. ASGPR can also bind hepatitis B virus (HBV) and mediate the HBV-infection of liver cells. The specific interaction with HBV makes ASGPR a potential target for therapeutic purposes.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: ASGR1/ASGR2 (human) mapping to 17p13.1; Asgr1/Asgr2 (mouse) mapping to 11 B3.

**SOURCE**

ASGPR1/2 (E-1) is a mouse monoclonal antibody raised against amino acids 1-291 representing full length ASGPR1 of human origin.

**PRODUCT**

Each vial contains 200 μg IgGκ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

ASGPR1/2 (E-1) is available conjugated to agarose (sc-166633 AC), 500 μg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-166633 HRP), 200 μg/ml for WB, HICP) and ELISA; to either phycoerythrin (sc-166633 PE), fluorescein (sc-166633 FITC), Alexa Fluor® 488 (sc-166633 AF488), Alexa Fluor® 546 (sc-166633 AF546), Alexa Fluor® 594 (sc-166633 AF594) or Alexa Fluor® 647 (sc-166633 AF647), 200 μg/ml, for WB (RGB), IF, HICP) and FCM; and to either Alexa Fluor® 680 (sc-166633 AF680) or Alexa Fluor® 790 (sc-166633 AF790), 200 μg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**APPLICATIONS**

ASGPR1/2 (E-1) is recommended for detection of ASGPR1, ASGPR2 and MASGP-BP of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation (1-2 μg per 100-500 μg of total protein (1 ml of cell lysate), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Molecular Weight of ASGPR1/2: 150/95 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, human fetal liver tissue extract or rat liver extract: sc-2395.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminal Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

**DATA**

**SELECT PRODUCT CITATIONS**


**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.