



ASIALOGLYCOPROTEIN RECEPTOR (ASGPR)

Catalog number

A8510

Supplier

United States Biological

The asialoglycoprotein receptor (ASGPR) is a transmembrane glycoprotein (42kD) which mediates binding, internalisation and degradation of extracellular glycoproteins that have exposed terminal galactose residues. The receptor is expressed on the surface of the hepatocytes in a polar manner, i.e. it is present on the sinusoidal and lateral plasma membranes but not on the bile canalicular membrane. The mammalian hepatic ASGPR mediates the endocytosis and degradation of serum proteins from which terminal sialic residues have been removed.

Applications

Suitable for use in Flow Cytometry, Immunohistochemistry, Immunofluorescence, ELISA and Western Blot. Other applications not tested.

Recommended Dilutions

Flow Cytometry: 1:50

Western Blot: 1:50 Detects a band at ~42kD. A non-reduced sample treatment and SDS-PAGE followed by blotting on nitrocellulose or PDFM is recommended. Block with 10% non-fat dry milk.

Immunohistochemistry (Frozen): 1:50 Acetone-fixed

ELISA: 20ug/ml using 100ul/well

Optimal dilutions to be determined by the researcher.

Recommended Positive Control

Rat hepatocytes

Recommended Negative Control

Rat Kidney, pancreas, small intestine, colon

Storage and Stability

May be stored at 4°C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20°C. Aliquots are stable for 12 months after receipt. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.

Immunogen

Crude rat liver membrane extracts

Formulation

Supplied as a liquid in PBS, 0.1% BSA, 0.02% sodium azide.

Purity

Purified by Protein G affinity chromatography.

Specificity



Recognizes a subunit-specific epitope on RHL-1 of rat ASGPR. Species Crossreactivity: human

Product Type

Mab

Source

rat

Isotype

IgG1

Grade

Affinity Purified

Applications

E FC IF IHC WB

Crossreactivity

Hu Rt

Storage

-20°C

MW

42

Reference

1. Shimada, M et al; Hepatol Res 2003, 26: 55 2. Mizuno, M et al; Liver 1987, 7: 251 3. Hyodo, I et al; Liver 1993, 13: 80 4. Mizuno, M et al; Gastroenterol Japan 1986, 21: 238. 5. Hirai, M et al. Acta med okayama 2002 56: 135. 6. Keyel, P et al. Mol boil Cell 2006 17:4300. 7. Zhou, X et al. Hum Reprod 2009 1: 1.