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- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



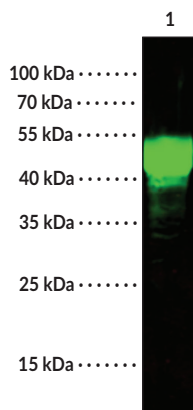
Asialoglycoprotein Receptor 1 Rabbit Monoclonal Antibody

Item No. 38103

Overview and Properties

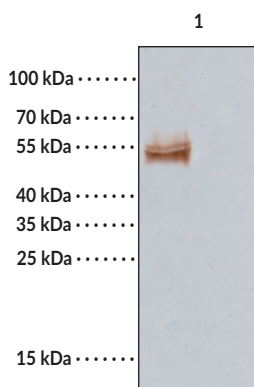
Contents:	This vial contains 50, 100 μ l, or 1 ml of protein A-affinity purified monoclonal antibody.
Synonyms:	ASGPR1, ASGR1, C-type Lectin Domain Family 4 Member H1, CLEC4H1, Hepatic Lectin H1, HL-1
Immunogen:	Recombinant human asialoglycoprotein receptor 1
Cross Reactivity:	(+) Asialoglycoprotein receptor 1
Species Reactivity:	(+) Human; other species not tested
Molecular Weight:	33 kDa
Uniprot No.:	P07306
Form:	Liquid
Storage:	-80°C (as supplied)
Stability:	\geq 1 year
Storage Buffer:	0.2 μ m filtered solution in PBS
Clone:	021
Host:	Rabbit
Isotype:	IgG
Applications:	ELISA (capture), Immunoprecipitation (IP), and Western blot (WB); the recommended starting dilution is 1:250-1:2,000 for ELISA (capture) and 1:500-1:2,000 for WB. The recommended concentration is 1-4 μ l/mg of lysate for IP. Other applications were not tested, therefore optimal working concentration/dilution should be determined empirically.

Images



Lane 1: HepG2 whole cell lysate (30 μ g)

WB of Asialoglycoprotein Receptor 1 Rabbit Monoclonal Antibody at 1:500 dilution. A rabbit IgG Dylight™ 800 antibody was used as a secondary antibody. Performed under reducing conditions.



Lane 1: 0.5 mg of HepG2 whole cell lysate immunoprecipitated using 2 μ l Asialoglycoprotein Receptor 1 Rabbit Monoclonal Antibody and 15 μ l of 50% protein G agarose

WB using Asialoglycoprotein Receptor 1 Rabbit Monoclonal Antibody at a 1:100 dilution.

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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PRODUCT INFORMATION



Description

Asialoglycoprotein receptor 1 is a calcium-dependent C-type lectin receptor.¹ It is composed of a carbohydrate recognition domain, which primarily recognizes galactosides such as D-galactose and N-acetyl-D-galactosamine (GalNAc), stalk region, transmembrane domain, and cytoplasmic domain. Asialoglycoprotein receptor 1 is expressed in hepatocytes and alternative splicing produces both long and short isoforms.² The long isoform localizes to the cell membrane, while the short isoform exists as a soluble form that is both secreted and found in the cytoplasm. The asialoglycoprotein receptor is a trimer that is commonly formed by two H1 subunits and one H2 subunit.¹ It is involved in the clearance of desialylated serum glycoproteins and hepatotropic virus entry *via* endocytosis. Ectopic expression of the gene encoding asialoglycoprotein receptor 1 (ASGR1) increases binding of hepatitis E virus to cells *in vitro*.³ Knockdown of ASGR1 increases survival and decreases liver injury and plasma TNF- α and IL-1 β levels in a mouse model of sepsis.⁴ Decreased protein levels of asialoglycoprotein receptor 1 negatively correlate with hepatocellular carcinoma tumor grade.⁵ The asialoglycoprotein receptor has been used as a target of galactosylated drug conjugates and various lipid-based drug delivery (LBDD) platforms, including lipid nanoparticles (LNPs), liposomes, and micelles, for therapeutic and imaging applications.¹ Cayman's Asialoglycoprotein Receptor 1 Rabbit Monoclonal Antibody can be used for ELISA (capture), immunoprecipitation (IP), and Western blot (WB) applications. The antibody recognizes asialoglycoprotein receptor 1 at 33 kDa from human samples. However, due to lipidation, glycation, and phosphorylation the antibody may recognize asialoglycoprotein receptor 1 at approximately 45-50 kDa.

References

1. Das, S., Kudale, P., Dandekar, P., *et al.* Asialoglycoprotein receptor and targeting strategies. *Targeted intracellular drug delivery by receptor mediated endocytosis*. Devarajan, P., Dandekar, P., and D'Souza, A.A., editors, 1st edition, Springer (2019).
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3. Zhang, L., Tian, Y., Wen, Z., *et al.* Asialoglycoprotein receptor facilitates infection of PLC/PRF/5 cells by HEV through interaction with ORF2. *J. Med. Virol.* **88**(12), 2186-2195 (2016).
4. Shi, R., Wang, J., Zhang, Z., *et al.* ASGR1 promotes liver injury in sepsis by modulating monocyte-to-macrophage differentiation via NF- κ B/ATF5 pathway. *Life Sci.* **315**, 121339 (2023).
5. Shi, B., Abrams, M., and Sepp-Lorenzino, L. Expression of asialoglycoprotein receptor 1 in human hepatocellular carcinoma. *J. Histochem. Cytochem.* **61**(12), 901-909 (2013).

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