

PRODUCT INFORMATION



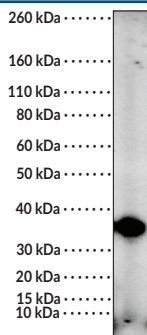
FGL1 Rabbit Monoclonal Antibody (Clone RM502)

Item No. 42775

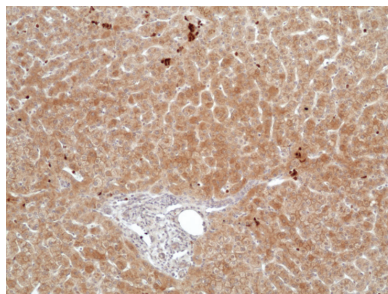
Overview and Properties

Contents:	This vial contains 100 µl of protein A-affinity purified monoclonal antibody.
Synonyms:	Fibrinogen-like Protein 1, Hepassocin, Hepatocyte-derived Fibrinogen-related Protein 1, HFREP-1, HP-041, HPS, LFIRE-1, Liver Fibrinogen-related Protein
Immunogen:	Peptide corresponding to the C-terminus of human FGL1
Cross Reactivity:	(+) FGL1
Species Reactivity:	(+) Human
Form:	Liquid
Storage:	-20°C (as supplied)
Stability:	≥1 year
Storage Buffer:	PBS with 50% glycerol, 1% BSA, and 0.09% sodium azide
Clone:	RM502
Host:	Rabbit
Isotype:	IgG
Applications:	Immunohistochemistry (IHC) and Western blot (WB); the recommended starting dilution is 1:100 - 1:200 for IHC and 1:1,000 - 1:2,500 for WB. Other applications were not tested, therefore optimal working concentration/dilution should be determined empirically.

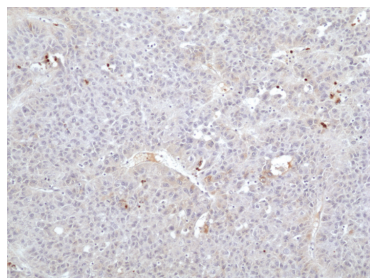
Images



WB of human plasma using FGL1 Rabbit Monoclonal Antibody (Clone RM502) at a dilution of 1:2,500.



Immunohistochemical staining of formalin-fixed and paraffin-embedded human liver tissue sections using FGL1 Rabbit Monoclonal Antibody (Clone RM502) at a dilution of 1:100 for one hour at room temperature.



Immunohistochemical staining of formalin-fixed and paraffin-embedded human hepatocellular carcinoma tissue sections using FGL1 Rabbit Monoclonal Antibody (Clone RM502) at a dilution of 1:100 for one hour at room temperature.

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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Description

Fibrinogen-like protein 1 (FGL1) is a member of the fibrinogen protein family.^{1,2} It functions as a homodimer and is composed of an N-terminal coiled-coiled domain, which promotes homo-oligomerization or hetero-oligomerization with lymphocyte activation gene 3 (LAG-3), and a C-terminal fibrinogen-like domain but lacks a platelet-binding region found in other fibrinogen proteins.¹ FGL1 is expressed in and secreted from the liver and to a lesser extent in brown adipose tissue.^{1,3} It decreases anti-Cd3-induced proliferation in wild-type mouse T cells but not in *Lag3*^{-/-} mouse T cells.² *Fgl1* knockout increases body weight, the liver weight to body weight ratio, hepatic triglyceride levels, and plasma cholesterol, free fatty acid, and glucose levels in mice.³ Plasma FGL1 levels are increased in patients with hyperglycemia.⁴ Cayman's FGL1 Rabbit Monoclonal Antibody (Clone RM502) can be used for immunohistochemistry (IHC) and Western blot (WB) applications.

References

1. Yamamoto, T., Gotoh, M., Sasaki, H., *et al.* Molecular cloning and initial characterization of a novel fibrinogen-related gene, HFREP-1. *Biochem. Biophys. Res. Commun.* **193**(2), 681-687 (1993).
2. Wang, J., Sanmamed, M.F., Datar, I., *et al.* Fibrinogen-like protein 1 is a major immune inhibitory ligand of LAG-3. *Cell* **176**(1-2), 334-347.e12 (2019).
3. Demchev, V., Malana, G., Vangala, D., *et al.* Targeted deletion of fibrinogen like protein 1 reveals a novel role in energy substrate utilization. *PLoS One* **8**(3), e58084 (2013).
4. Ou, H.-Y., Wu, H.-T., Lin, C.-H., *et al.* The hepatic protection effects of hepassocin in hyperglycemic crisis. *J. Clin. Endocrinol. Metab.* **102**(7), 2407-2415 (2017).

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