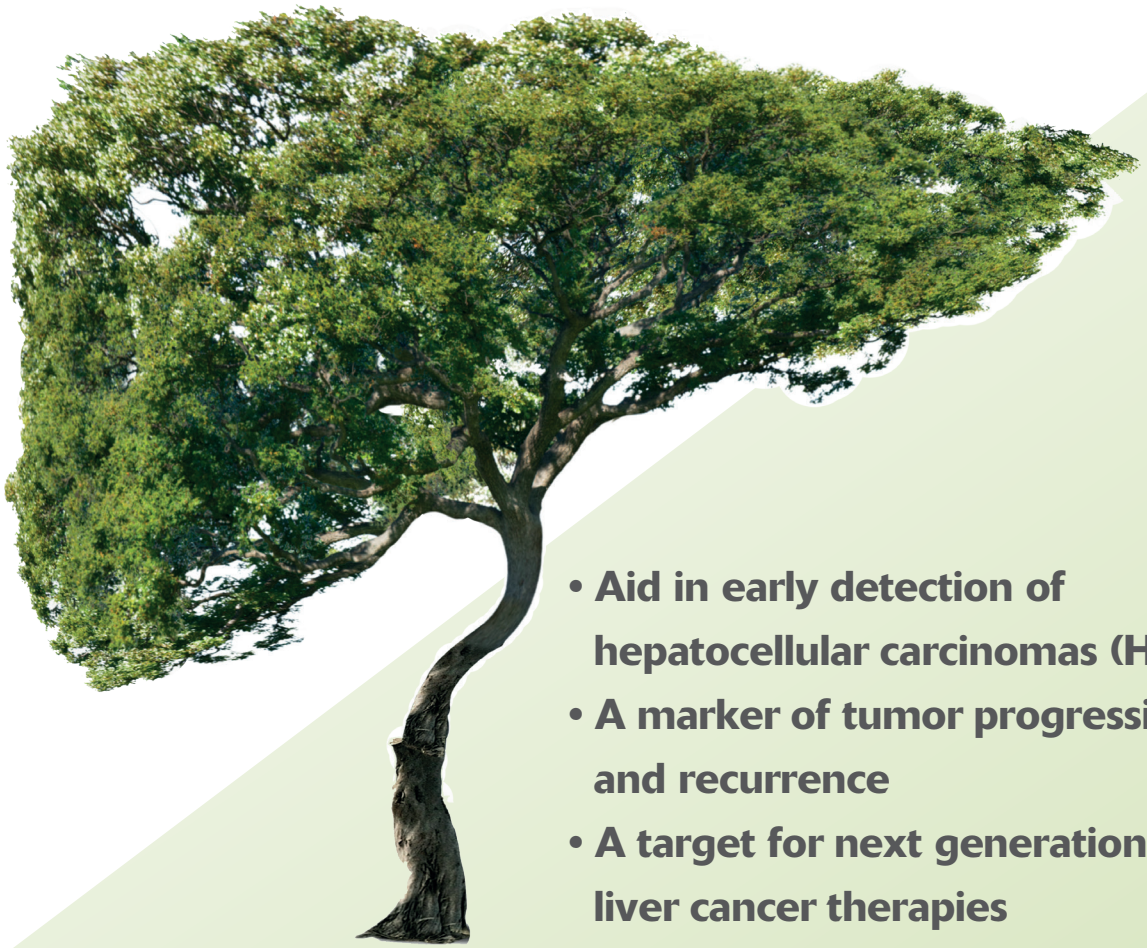
A novel biomarker targeting early detection of Liver Cancer

CanAg Glypican-3 EIA



- Aid in early detection of hepatocellular carcinomas (HCC)
- A marker of tumor progression and recurrence
- A target for next generation liver cancer therapies

Find out more

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Hepatocellular carcinoma

Liver cancer is a global health issue, and its incidence is progressively increasing worldwide. It has been estimated that every year more than 800,000 people are diagnosed with liver cancer globally[1], and that by 2025 this disease will affect more than 1 million individuals[2].

Hepatocellular carcinoma (HCC) is the most common form of primary liver cancer in adults, accounting for about 80% of cases (other forms include cholangiocarcinoma in 10–20% of cases and angiosarcoma in 1% of cases)[3]. In the majority of cases, HCC is a direct consequence of cirrhosis and chronic liver inflammation, and the major risk factors include HBV/HCV infection, heavy alcohol consumption, ingestion of aflatoxin B1, smoking, and nonalcoholic fatty liver disease (NAFLD) caused by obesity and insulin resistance[4].

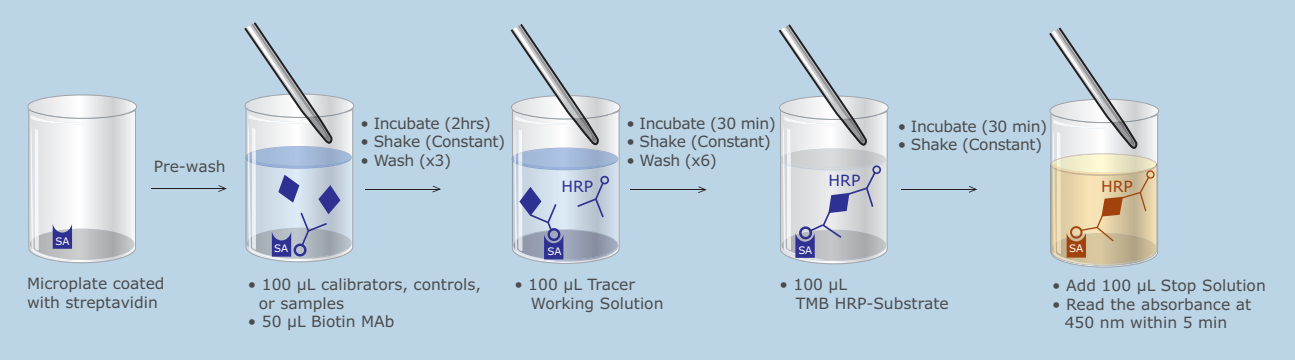
Surveillance of patients for early stage HCC may thus represent an effective tool for the improvement of patient's survival and effectiveness of treatment[5]. Specifically, early-stage HCC are eligible for curative therapies including ablation, surgical resection or liver transplantation, while patients diagnosed with late-stage disease are only eligible for palliative systemic therapies with poor response rates[6].
In conclusion, there is an alarming (and unmet) clinical need for identifying highly sensitive and specific blood-biomarkers for the surveillance of high-risk subjects, for early detection of HCC and also for the prediction of therapeutic outcome. Ideally, the use of multiple biomarkers for early-stage HCC diagnosis might result in acceptable (> 80%) sensitivity without impacting specificity[7].

Why test for Glypican-3?

- Increasing incidence of HCC in many countries – Due to HCV, HBV, alcohol and obesity epidemic (fatty liver disease)
- Surveillance test for high risk patients could facilitate early detection of HCC
- Glypican-3 has emerged as a potential serological marker for early detection of HCC
- Initial studies indicates that Glypican-3 can increase sensitivity and specificity.
- Glypican-3 is a promising therapeutic target

Assay procedure

Below is an illustration of the CanAg Glypican-3 EIA two-step assay procedure. Results are available within 3.5 hours.



Glypican-3 Specification

CE

Specifications	Product No: 503-10
Results within:	3.5 hours, two step procedure
Measuring range:	0 – 2850 pg/mL
Sample volume:	100 µL
Stability:	18 months at 2 – 8° C
Incubation temperature:	20 – 25° C
Detection:	450 nm
Precision above 100 pg/mL:	≤10% CV within assay

Find out more

Scan the QR-code below to visit our website to find more information about CanAg Glypican-3 EIA.

R LIVER CANCER

Kit Components

Item	Quantity
Microplate, 96 wells streptavidin coated	1 plate, 12 x 8, breakable
Calibrators	
Glypican-3 Calibrator A	1 x 5 mL, Liquid
Glypican-3 Calibrator B	1 x 1 mL, Lyophilized
Glypican-3 Calibrator C	1 x 1 mL, Lyophilized
Glypican-3 Calibrator D	1 x 1 mL, Lyophilized
Glypican-3 Calibrator E	1 x 1 mL, Lyophilized

Item	Quantity
Controls	
Glypican-3 Control 1	1 x 1 mL, Lyophilized
Glypican-3 Control 2	1 x 1 mL, Lyophilized
Biotin Anti-Glypican-3	1 x 8 mL
Tracer, HRP Anti-Glypican-3	1 x 0.75 mL
Tracer Diluent	1 x 15 mL
TMB HRP Substrate	1 x 12 mL
Stop Solution	1 x 15 mL
Wash Concentrate	1 x 50 mL

About us

Fujirebio is a global leader in the field of high-quality in vitro diagnostics (IVD) testing. It has more than 50 years' accumulated experience in the conception, development, production and worldwide commercialization of robust IVD products.

Fujirebio has a long-lasting tradition for developing high-quality routine and truly novel biomarkers. Its IVD product lines span the range from specialized manual and automated testing to fully automated routine clinical laboratory testing solutions covering a variety of disease states. Fujirebio's global presence includes offices in the United States, Latin America, Europe and Asia as well as a vast international distribution network.

CanAg Diagnostics AB, now Fujirebio Diagnostics AB, was founded in 1992 in Sweden. In 2006 they joined Fujirebio Diagnostics, to strengthen the company's product offerings, distribution network, and research and development capabilities.

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CanAg Glypican-3 EIA, November 2021, FDAB-053, r1