

# Human HepG2 Hepatocellular Carcinoma Cells

## Industry standard cell line for human carcinoma and drug discovery research

- Immortalized cell line used as an in vitro model system for liver disease research
- A versatile tool in the fields of hepatology, toxicology and pharmacology
- Typically used to investigate liver diseases caused by incorrect subcellular distribution of cell surface proteins
- Nontumorigenic cells can be conditioned or engineered for mediated cell death

CAT: CR1015-500

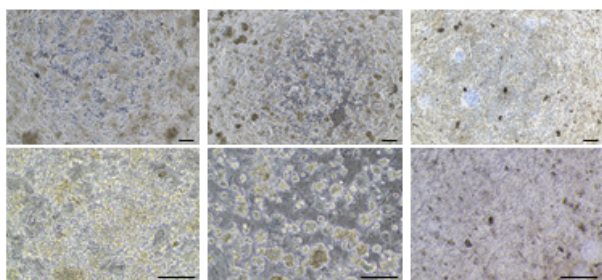


### Key Research Applications

Liver Disease  
ModelingLiver Toxicology  
StudiesCancer  
ResearchEnvironment &  
Dietary StudiesRegenerative  
Medicine

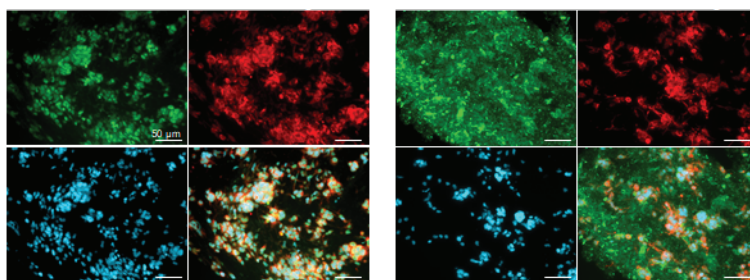
*HepG2 carcinoma cells from CET are used as positive control cell lines to study liver cell surface protein interactions in disease modeling, such as non-alcoholic fatty liver disease, and cell-to-cell signaling in engraftment and angiogenesis applications.*

### HepG2 hepatocytes in hydrogel solutions to study Hepatocyte transplantation (HCT)



Udagawa, D et al. Keio University School of Medicine

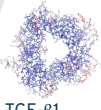
### Immunostaining analysis of HepG2 cells encapsulated in hydrogel



HNF4a / ALBUMIN / Nuclei / Merge

COLLAGEN IV / CK8/18 / Nuclei / Merge

### Related Offerings

HepG2  
Expansion  
Media  
CAT: MR1010

TGF-β1

Growth  
Factors  
CAT: MR1010HepG2  
Research  
Pack  
CAT: BR1003

SCAN THE QR CODE  
FOR INFORMATION  
ON CET'S IPSCS



Robust normal and disease model cell lines...

just for YOU.

## HepG2 Cell Characteristics

<b>Growth Properties</b>	Adherent
<b>Karyotype</b>	Modal number = 55 (range = 50 to 60); has a rearranged chromosome 1
<b>Tumorigenic</b>	No, in immunosuppressed mice. Yes, in semisolid medium
<b>Genes expressed</b>	alpha-fetoprotein (AFP, alpha-fetoprotein); albumin; alpha2 macroglobulin (alpha-2-macroglobulin); alpha1 antitrypsin (alpha-1-antitrypsin); transferrin; alpha1 antichymotrypsin (alpha-1-antichymotrypsin); haptoglobin; ceruloplasmin; plasminogen, complement (C4); C3 activator; fibrinogen; alpha1 acid glycoprotein (alpha-1 acid glycoprotein); alpha2 HS glycoprotein (alpha-2-HS-glycoprotein); beta lipoprotein (beta-lipoprotein); retinol binding protein (retinol-binding protein)
<b>Expression markers</b>	Insulin: insulin-like growth factor II (IGF II)

## RESEARCH SOLUTIONS

Category	Product Type	Catalog No.	Product Name
Mesenchymal Stem Cells	Cells	CR1004-500	Human Adipose-Derived Mesenchymal Stem Cells (MSCs)
	Cells	CR1005-500	Human Bone Marrow-Derived Mesenchymal Stem Cells (MSCs)
	Cells	CR1006-500	Human Amniotic Membrane Derived Mesenchymal Stem Cells (MSCs)
	Media	MR1016	Human MSC Expansion Media
Disease Model Solutions	Cells	CR1015-500	Human HepG2 Hepatocellular Carcinoma Cells
	Media	MR1010	Human HepG2 Hepatocellular Carcinoma Expansion Media
	Cells	CR1016-500	Human Panc-1 Cells
	Media	MR1012	Human Panc-1 Expansion Media
Other Research Solutions	Cells	CR1017-500	Human HACAT Keratinocyte Cells
	Media	MR1013	Human HaCaT Keratinocyte Growth Media
	Cells	CR1007-500	Chinese Hamster Ovary (CHO) K1 Cells
	Media	MR1015	CHO Cell Culture Growth Media
	Media	MR1014	Cryopreservation Media
Research Starter Kits	Kit	BR1010	Human Amniotic Membrane-Derived MSC Starter Kit
	Kit	BR1011	Human BMSC Differentiation Kit
	Kit	BR1012	Human AdMSC Differentiation Kit
	Kit	BR1006	Human Adipogenic Differentiation Kit
	Kit	BR1007	Human Osteogenic Differentiation Kit
	Kit	BR1002	Human Panc-1 Research Starter Kit
	Kit	BR1003	Human HepG2 Research Starter Kit
	Kit	BR1005	CHO Cell Research Starter Kit