

Supplemental Table 1 Liver cancer stem cell markers in hepatocellular carcinoma

Marker	Another name	Function	Ref.
CD133	Prom-1	Neurotensin/IL-8/CXCL1 signaling	[33,186]
OV6	Oval cell marker	Unknown until know, but it is considered to be an inducible progenitor cell in rodent models.	[8,38]
EpCAM	Epithelial cell adhesion molecule	Activation of Wnt signaling	[187,188]
CD13	Cluster of differentiation 13	ROS-induced DNA damage reduction	[71,72,189]
CD24	Heat-stable antigen	STAT3-mediated NANOG regulation	[18,34,150]
CD90	Thy-1	Glycophosphatidylinositol (GPI) anchor	[18,32]
CD44	Hyaluronic acid receptor	Participation in epithelial mesenchymal transition	[33,69,190]
ALDH	Aldehyde dehydrogenase	Group of intracellular enzymes that oxidize aldehydes (thereby serving a detoxifying role)	[15,39]

Supplemental Box 1 Summary of issues regarding hepatocellular carcinoma cancer stem cells (HCSCs)

One HCSC marker is not specific and must be used in combination with other markers.

HCSCs subpopulations have epigenetic and genetic changes in the initiation, progression and relapse of tumors.

Detection of splice variants of the markers is difficult and is generally not taken into consideration.

Data obtained depends on the subpopulations of HSCs that are analyzed.

It is important to consider the HCSCs subclones inside the tumor and their plasticity.