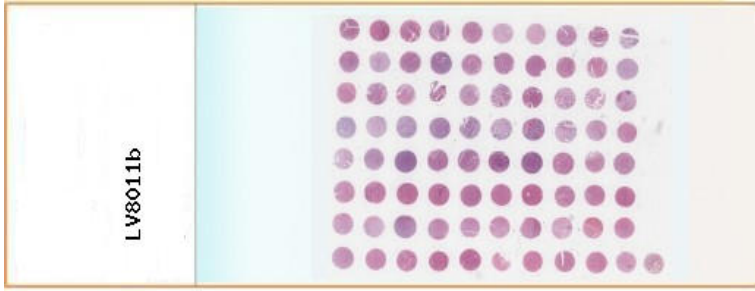


LV8011b : Liver disease spectrum (hepatic cancer progression) and liver tissue array, with metastatic carcinoma, including pathology grade, TNM and clinical status, replacing LV8011a

Microarray Panel	Liver disease spectrum (hepatic cancer progression) tissue microarray, containing 30 cases of hepatocellular carcinoma, 12 cholangiocellular carcinoma, 5 metastatic carcinoma, 16 liver cirrhosis, 7 inflammation, 5 each of adjacent normal liver tissue and liver tissue, single core per block	
Cores	80	
Cases	77	
Row number	8	
Column number	10	
Core Diameter (mm)	1.5	
Thickness (µm)	5	
Tissue Array Type	FFPE	
Species	Human	
Applications	Routine histology procedures including Immunohistochemistry (IHC) and In Situ Hybridization (ISH), protocols which can be found at our support page.	
Notes	1. TMA slides were sectioned and stored at 4°C and may not be fresh cut, but still suitable for IHC. Please request fresh cut if experiment involves phospho-specific antibodies, RNA studies, FISH or ISH, etc. A minimum of 3 slides per TMA must be purchased to cover the cost of trimming for fresh sectioning. 2. Most TMA slides were not coated with an extra layer of paraffin (tissue cores can be easily seen on the glass). To prevent tissue detachment during antigen retrieval, unbaked slides must be baked for at least 30 to 120 minutes at 60°C. before putting into xylene for de-paraffinization. Baked slides were sent out baked for 2 hours. In the following specsheets, "*" means invalid core; "-" means no applicable or negative in IHC markers.	

	1	2	3	4	5	6	7	8	9	10
A	Liv	Liv	Liv	Liv	Liv	Liv	Liv	Liv	Liv	Liv
B	Liv	Liv	Liv	Liv	Liv	Liv	Liv	Liv	Liv	Liv
C	Liv	Liv	Liv	Liv	Liv	Liv	Liv	Liv	Liv	Liv
D	Liv	Liv	Liv	Liv	Liv	Liv	Liv	Liv	Liv	Liv
E	Liv	Liv	Abd	Pel	Che	Col	Che	Liv	Liv	Liv
F	Liv	Liv	Liv	Liv	Liv	Liv	Liv	Liv	Liv	Liv
G	Liv	Liv	Liv	Liv	Liv	Liv	Liv	Liv	Liv	Liv
H	Liv	Liv	Liv	Liv	Liv	Liv	Liv	Liv	Liv	Sk1

Legend: Abd - Abdominal cavity, Che - Chest wall, Col - Colon, Liv - Liver, Pel - Pelvic cavity

● - Cirrhosis, ● - Inflammation, ● - Malignant tumor, ● - Malignant tumor (stage I), ● - Malignant tumor (stage II), ● - Malignant tumor (stage IIIA), ● - Malignant tumor (stage IIIC), ● - Malignant tumor (stage IVA), ● - Metastasis, ● - NAT, ● - Normal tissue

Pos.	No.	Age	Sex	Organ/Anatomic Site	Pathology diagnosis	TNM	Grade	Stage	Type	Notes	Image
A1	1	46	M	Liver	Hepatocellular carcinoma	T2N0M0	1	II	Malignant		
A2	2	50	M	Liver	Hepatocellular carcinoma	T3N0M0	2	IIIA	Malignant		
A3	3	35	M	Liver	Hepatocellular carcinoma	T2N0M0	1	II	Malignant		
A4	4	98	F	Liver	Hepatocellular carcinoma	T3N0M0	2	IIIA	Malignant		
A5	5	63	F	Liver	Hepatocellular carcinoma	T2N0M0	1	II	Malignant		
A6	6	71	M	Liver	Hepatocellular carcinoma	T3N0M0	3	IIIA	Malignant		
A7	7	37	F	Liver	Hepatocellular carcinoma	T3N0M0	3	IIIA	Malignant		
A8	8	49	M	Liver	Hepatocellular carcinoma	T3N0M0	2	IIIA	Malignant		
A9	9	56	M	Liver	Hepatocellular carcinoma	T3N0M0	2	IIIA	Malignant		
A10	10	45	F	Liver	Hepatocellular carcinoma	T3N0M0	2	IIIA	Malignant		
B1	11	77	M	Liver	Hepatocellular carcinoma	T2N0M0	1	II	Malignant		
B2	12	36	M	Liver	Hepatocellular carcinoma	T2N0M0	2	II	Malignant		
B3	13	45	M	Liver	Hepatocellular carcinoma	T2N0M0	2	II	Malignant		
B4	14	39	M	Liver	Hepatocellular carcinoma	T2N0M0	2	II	Malignant		
B5	15	52	M	Liver	Hepatocellular carcinoma	T3N0M0	2	IIIA	Malignant		
B6	16	53	M	Liver	Hepatocellular carcinoma	T3N0M0	2	IIIA	Malignant		

B7	17	38	M	Liver	Hepatocellular carcinoma	T3N0M0	2	IIIA	Malignant		
B8	18	48	M	Liver	Hepatocellular carcinoma	T3N0M0	2	IIIA	Malignant		
B9	19	35	M	Liver	Hepatocellular carcinoma	T3N0M0	1	IIIA	Malignant		
B10	20	63	M	Liver	Hepatocellular carcinoma (sparse)	T3N0M0	2	IIIA	Malignant		
C1	21	58	M	Liver	Hepatocellular carcinoma	T3N0M0	2	IIIA	Malignant		
C2	22	55	F	Liver	Hepatocellular carcinoma	T3N0M0	2	IIIA	Malignant		
C3	23	32	F	Liver	Hepatocellular carcinoma	T2N0M0	1	II	Malignant		
C4	24	56	M	Liver	Hepatocellular carcinoma	T4N0M0	*	IIIC	Malignant		
C5	25	43	F	Liver	Hepatocellular carcinoma	T2N0M0	3	II	Malignant		
C6	26	63	M	Liver	Hepatocellular carcinoma	T3N0M0	3	IIIA	Malignant		
C7	27	52	F	Liver	Hepatocellular carcinoma	T3N0M0	3	IIIA	Malignant		
C8	28	62	M	Liver	Hepatocellular carcinoma	T3N0M0	3	IIIA	Malignant		
C9	29	50	M	Liver	Hepatocellular carcinoma	T3N0M0	3	IIIA	Malignant		
C10	30	69	F	Liver	Hepatocellular carcinoma	T3N0M0	3	IIIA	Malignant		
D1	31	66	M	Liver	Cholangiocellular carcinoma	T2N0M0	2--3	II	Malignant		
D2	32	36	F	Liver	Cholangiocellular carcinoma (sparse)	T2N0M0	-	II	Malignant		
D3	33	39	F	Liver	Cholangiocellular carcinoma	T2N0M0	2	II	Malignant		
D4	34	58	F	Liver	Cholangiocellular carcinoma	T2N0M0	2	II	Malignant		
D5	35	40	M	Liver	Cholangiocellular carcinoma	T3N0M0	2	IIIA	Malignant		
D6	36	40	F	Liver	Cholangiocellular carcinoma	T3N0M0	2	IIIA	Malignant		
D7	37	45	M	Liver	Cholangiocellular carcinoma	T2N0M0	2	II	Malignant		
D8	38	48	F	Liver	Cholangiocellular carcinoma	T1N0M0	2	I	Malignant		
D9	39	62	F	Liver	Cholangiocellular carcinoma	T2N0M0	3	II	Malignant		
D10	40	69	F	Liver	Cholangiocellular carcinoma	T3N1M0	3	IVA	Malignant		
E1	41	58	F	Liver	Cholangiocellular carcinoma	T2N0M0	3	II	Malignant		
E2	42	70	F	Liver	Cholangiocellular carcinoma	T2N0M0	3	II	Malignant		
E3	43	35	M	Abdominal cavity	Metastatic hepatocellular carcinoma	-	3	-	Metastasis		
E4	44	41	M	Pelvic cavity	Metastatic hepatocellular carcinoma	-	3	-	Metastasis		
E5	45	55	M	Chest wall	Metastatic hepatocellular carcinoma	-	3	-	Metastasis		
E6	46	56	F	Colon	Metastatic hepatocellular carcinoma	-	2	-	Metastasis		
E7	47	33	F	Chest wall	Metastatic hepatocellular carcinoma	-	2	-	Metastasis		
E8	48	41	M	Liver	Liver cirrhosis	-	-	-	Cirrhosis		
E9	49	42	M	Liver	Liver cirrhosis	-	-	-	Cirrhosis		
E10	50	56	M	Liver	Liver cirrhosis with hyperplasia	-	-	-	Cirrhosis		
F1	51	44	M	Liver	Liver cirrhosis	-	-	-	Cirrhosis		
F2	52	51	M	Liver	Liver cirrhosis	-	-	-	Cirrhosis		
F3	53	48	M	Liver	Liver cirrhosis	-	-	-	Cirrhosis		
F4	54	39	M	Liver	Liver cirrhosis	-	-	-	Cirrhosis		
F5	55	50	M	Liver	Liver cirrhosis	-	-	-	Cirrhosis		
F6	56	48	F	Liver	Chronic active hepatitis	-	-	-	Inflammation		
F7	57	68	M	Liver	Chronic persistent hepatitis	-	-	-	Inflammation		
F8	58	54	M	Liver	Chronic active hepatitis	-	-	-	Inflammation		
F9	59	43	M	Liver	Chronic active hepatitis	-	-	-	Inflammation		
F10	60	50	M	Liver	Chronic active hepatitis	-	-	-	Inflammation		
G1	61	50	M	Liver	Chronic active hepatitis	-	-	-	Inflammation		
G2	62	56	F	Liver	Chronic active hepatitis	-	-	-	Inflammation		
G3	63	60	M	Liver	Liver cirrhosis	-	-	-	Cirrhosis		
G4	64	58	M	Liver	Liver cirrhosis	-	-	-	Cirrhosis		
G5	65	43	M	Liver	Liver cirrhosis	-	-	-	Cirrhosis		
G6	66	52	F	Liver	Liver cirrhosis of No.28	-	-	-	Cirrhosis		
G7	67	57	M	Liver	Liver cirrhosis	-	-	-	Cirrhosis		
G8	68	55	F	Liver	Liver cirrhosis of No.19	-	-	-	Cirrhosis		
G9	69	32	F	Liver	Liver cirrhosis of No.4	-	-	-	Cirrhosis		
G10	70	63	M	Liver	Liver cirrhosis	-	-	-	Cirrhosis		
H1	71	57	F	Liver	Adjacent normal liver tissue	-	-	-	NAT		
H2	72	60	M	Liver	Adjacent normal liver tissue	-	-	-	NAT		
H3	73	31	M	Liver	Adjacent normal liver tissue	-	-	-	NAT		
H4	74	34	M	Liver	Adjacent normal liver tissue	-	-	-	NAT		
H5	75	31	M	Liver	Adjacent normal liver tissue	-	-	-	NAT		
H6	76	27	F	Liver	Liver tissue	-	-	-	Normal		
H7	77	21	F	Liver	Liver tissue	-	-	-	Normal		
H8	78	40	F	Liver	Liver tissue	-	-	-	Normal		
H9	79	47	M	Liver	Liver tissue	-	-	-	Normal		
H10	80	21	F	Liver	Liver tissue	-	-	-	Normal		
-	0	58	M	Skin	Malignant melanoma (tissue marker)		-		Malignant	-	

TNM grading:

T - Primary tumor

Tx - Primary tumor cannot be assessed

T0 - No evidence of primary tumor

Tis - Carcinoma in situ; intraepithelial or invasion of lamina propria

T1 - Tumor invades submucosa

T2 - Tumor invades muscularis propria

T3 - Tumor invades through muscularis propria into subserosa or into non-peritonealized pericolic or perirectal tissues.

T4 - Tumor directly invades other organs or structures and/or perforate visceral peritoneum

N - Regional lymph nodes

Nx - Regional lymph nodes cannot be assessed

N0 - No regional lymph node metastasis

N1 - Metastasis in 1 to 3 regional lymph nodes

N2 - Metastasis in 4 or more regional lymph nodes

M - Distant metastasis

Mx - Distant metastasis cannot be assessed

M0 - No distant metastasis

M1 - Distant metastasis

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