

### MC001: Colorectal Tumour Tissue Array (Human)

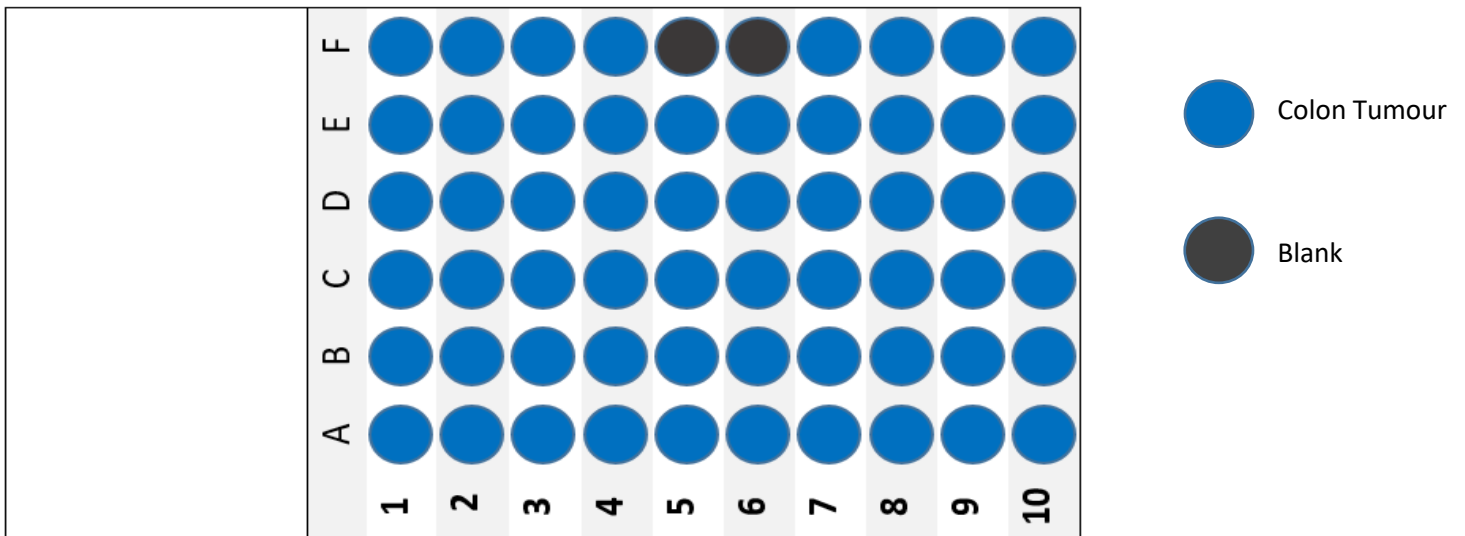
29 cases/60 cores, include TNM and pathology diagnosis



#### Description:

<b>Product code</b>	MC001
<b>Cases</b>	29
<b>Row number</b>	10
<b>Column number</b>	6
<b>Core diameter (mm)</b>	2
<b>Thickness</b>	4µm
<b>Tissue array type</b>	FFPE
<b>Species</b>	Human
<b>Application</b>	<ul style="list-style-type: none"><li>Immunohistochemistry</li><li>In situ hybridization</li><li>Fluorescent in situ hybridization</li><li>Terminal deoxynucleotidyl transferase dUTP nick-end labelling (TUNEL) analysis</li><li>In situ polymerase chain reaction (In situ PCR)</li></ul>
<b>Notes</b>	<ul style="list-style-type: none"><li>Storage temperature: 4°C</li><li>Shipping temperature: Ambient</li></ul>

#### TMA map:



**Patient information:**

<b>Position</b>	<b>Age</b>	<b>Gender</b>	<b>Pathology diagnosis</b>	<b>TNM</b>	<b>Type of tumour</b>
A1	59	Female	Moderately differentiated adenocarcinoma	T4 N1 MX	Malignant
A2	59	Female	Moderately differentiated adenocarcinoma	T4 N1 MX	Malignant
A3	60	Female	Moderately differentiated adenocarcinoma	T4b N0 Mx	Malignant
A4	60	Female	Moderately differentiated adenocarcinoma	T4b N0 Mx	Malignant
A5	54	Female	Moderately differentiated adenocarcinoma	T3 N2b Mx	Malignant
A6	54	Female	Moderately differentiated adenocarcinoma	T3N2b Mx	Malignant
A7	58	Female	Moderately differentiated adenocarcinoma	T3 N0 Mx	Malignant
A8	58	Female	Moderately differentiated adenocarcinoma	T3 N0 Mx	Malignant
A9	48	Female	Moderately differentiated adenocarcinoma	N/A	Malignant
A10	48	Female	Moderately differentiated adenocarcinoma	N/A	Malignant
B1	75	Male	Recurrent adenocarcinoma	N/A	Malignant
B2	75	Male	Recurrent adenocarcinoma	N/A	Malignant
B3	65	Male	Moderately differentiated adenocarcinoma	T2 N0 Mx	Malignant
B4	65	Male	Moderately differentiated adenocarcinoma	T2 N0 Mx	Malignant
B5	69	Male	Moderately differentiated adenocarcinoma	T4b Nx Mx	Malignant
B6	69	Male	Moderately differentiated adenocarcinoma	T4b Nx Mx	Malignant
B7	80	Female	Moderately differentiated adenocarcinoma	T3 N0 Mx	Malignant
B8	80	Female	Moderately differentiated adenocarcinoma	T3 N0 Mx	Malignant
B9	71	Male	Moderately differentiated adenocarcinoma	T4 N2a Mx	Malignant
B10	71	Male	Moderately differentiated adenocarcinoma	T4 N2a Mx	Malignant
C1	68	Male	Moderately differentiated adenocarcinoma	T3 N1b Mx	Malignant
C2	68	Male	Moderately differentiated adenocarcinoma	T3 N1b Mx	Malignant
C3	78	Male	Moderately differentiated adenocarcinoma	T3 N0 Mx	Malignant
C4	78	Male	Moderately differentiated adenocarcinoma	T3 N0 Mx	Malignant
C5	56	Female	Moderately differentiated adenocarcinoma	N/A	Malignant
C6	56	Female	Moderately differentiated adenocarcinoma	N/A	Malignant
C7	44	Male	Moderately differentiated adenocarcinoma	T3 N0 Mx	Malignant
C8	44	Male	Moderately differentiated adenocarcinoma	T3 N0 Mx	Malignant
C9	63	Female	Recurrent adenocarcinoma	N/A	Malignant
C10	63	Female	Recurrent of adenocarcinoma	N/A	Malignant
D1	74	Male	Moderately differentiated adenocarcinoma	T4a N2b Mx	Malignant
D2	74	Male	Moderately differentiated adenocarcinoma	T4a N2b Mx	Malignant
D3	64	Male	Moderately differentiated adenocarcinoma;	T3 N1b Mx	Malignant
D4	64	Male	Moderately differentiated adenocarcinoma	T3 N1b Mx	Malignant
D5	65	Female	Moderately differentiated adenocarcinoma	T3 N0 Mx	Malignant
D6	65	Female	Moderately differentiated adenocarcinoma	T3 N0 Mx	Malignant

D7	57	Female	Poorly differentiated adenocarcinoma	T3 N1 Mx	Malignant
D8	57	Female	Poorly differentiated adenocarcinoma	T3 N1 Mx	Malignant
D9	54	Male	Moderately differentiated adenocarcinoma	T3 N0 Mx	Malignant
D10	54	Male	Moderately differentiated adenocarcinoma	T3 N0 Mx	Malignant
E1	59	Male	Moderately differentiated adenocarcinoma	T3 N1 Mx	Malignant
E2	59	Male	Moderately differentiated adenocarcinoma	T3 N1 Mx	Malignant
E3	74	Male	Moderately differentiated adenocarcinoma	T3a N2a Mx	Malignant
E4	74	Male	Moderately differentiated adenocarcinoma	T3a N2a Mx	Malignant
E5	73	Male	Moderately differentiated adenocarcinoma	T3 N1a Mx	Malignant
E6	73	Male	Moderately differentiated adenocarcinoma	T3 N1a Mx	Malignant
E7	65	Female	Moderately differentiated adenocarcinoma	T3 N2a MX	Malignant
E8	65	Female	Moderately differentiated adenocarcinoma	T3 N2a MX	Malignant
E9	62	Female	Moderately differentiated adenocarcinoma	N/A	Malignant
E10	62	Female	Moderately differentiated adenocarcinoma	N/A	Malignant
F1	70	Male	Moderately differentiated adenocarcinoma	N/A	Malignant
F2	70	Male	Moderately differentiated adenocarcinoma	N/A	Malignant
F3	54	Male	Moderately differentiated adenocarcinoma	T3 N0 Mx	Malignant
F4	54	Male	Moderately differentiated adenocarcinoma	T3 N0 Mx	Malignant
F5					
F6					
F7	54	Male	Moderately differentiated adenocarcinoma	T2 N2b Mx	Malignant
F8	54	Male	Moderately differentiated adenocarcinoma	T2 N2b Mx	Malignant
F9	78	Female	Moderately differentiated adenocarcinoma	T4a N1a Mx	Malignant
F10	78	Female	Moderately differentiated adenocarcinoma	T4a N1a Mx	Malignant

## Stage description

The American Joint Committee on Cancer (AJCC) TNM system is the frequently employed colorectal cancer staging system, and it is based on three important elements:

- The extent (size) of the tumor (T): How far has the cancer grown into the wall of the colon or rectum?
- The spread to nearby lymph nodes (N): Has the cancer spread to nearby lymph nodes?
- The spread (metastasis) to distant sites (M): Has the cancer spread to distant lymph nodes or distant organs?

Stage	TNM
0	Tis, N0, M0
I	T1 or T2, N0, M0
IIA	T3, N0, M0
IIB	T4a, N0, M0
IIC	T4b, N0, M0
IIIA	T1 / T2, N1 / N1c / N2a, M0
IIIB	T3 / T4a, N1/N1c, M0 T2 / T3, N2a, M0 T1 or T2, N2b, M0
IIIC	T4a, N2a, M0 T3 or T4a, N2b, M0 T4b, N1 / N2, M0
IVA	Any T, Any N, M1a
IVB	Any T, Any N, M1b
IVC	Any T, Any N, M1c

### Tumor (T)

T1: Tumor grown through the muscularis mucosa into the submucosa

T2: Tumor has grown into the muscularis propria

T3: The tumor has grown into the outermost layers of the colon or rectum but has not gone through them

T4a: The tumor has grown through the wall of the colon or rectum

T4b: The tumor has grown into or has attached to other organs or structures.

### Nodes (N)

N0 : There is no spread to regional lymph nodes.

N1a: Tumor cells found in 1 regional lymph node.

N1b: Tumor cells found in 2 or 3 regional lymph nodes.

N1c: Nodules made up of tumor cells found in the structures near the colon that do not appear to be lymph nodes.

N2a: Tumor cells found in 4 to 6 regional lymph nodes.

N2b: Tumor cells found in 7 or more regional lymph nodes.

Metastasis (M)

M0 - No distant metastasis

M1 - Distant metastasis

Mx - Distant metastasis cannot be assessed