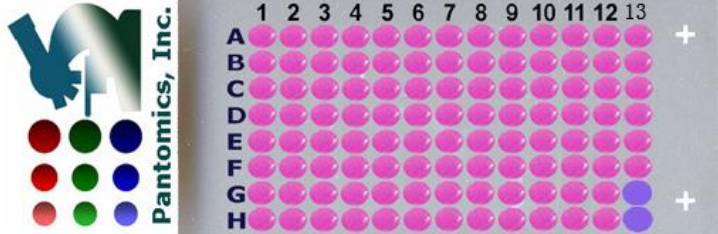


Cat No: REC1021 Rectum cancer tissue array

Lot#	Cores	Size	Cut	Format	QA/QC	Pantomics, Inc.	
REC102101	102	1.5mm	4um	8X13	H&E, IHC anti-Cytokeratin		

Recommended applications: For Research use only. RNA or protein Rectum cancer/non-tumor tissue profiling using IHC or ISH; Antibody characterization.

Description: Rectum cancer tissue array, 102 cases of normal/benign (5 cases) and cancer (97 cases with grading and TNM staging data) tissues.

All the tissues were from surgical resection. They were fixed in 10% neutral buffered formalin for 24 hours and processed using identical SOPs. Sections were picked onto Superfrost Plus or APES coated Superfrost slides. They can be stored for use at 4C for up to six months from the date of shipment. **There may be 5 to 10% of tissue core loss.**

Array Position	Sex	Age	Anatomic Site	Pathology	Grade	Stage
A01	M	31	Intestine, rectum	Normal	null	null
A02	M	74	Intestine, rectum	Normal	null	null
A03	M	68	Intestine, rectum	Villous adenoma	null	null
A04	M	77	Intestine, rectum	Villous adenoma	null	null
A05	M	62	Intestine, rectum	Villous adenoma	null	null
A06	M	54	Intestine, rectum	Papillary adenocarcinoma	null	T1N0M0
A07	M	73	Intestine, rectum	Papillary adenocarcinoma	null	T2N1M0
A08	M	58	Intestine, rectum	Papillary adenocarcinoma	null	T1N0M0
A09	F	38	Intestine, rectum	Papillary adenocarcinoma	null	T2N0M0
A10	M	44	Intestine, rectum	Mucinous adenocarcinoma	null	T2N2M0
A11	M	53	Intestine, rectum	Mucinous adenocarcinoma	null	T2N1M0
A12	F	53	Intestine, rectum	Mucinous adenocarcinoma	null	T3N0M0
A13	F	37	Intestine, rectum	Adenocarcinoma	I	T3N0M0
B01	F	50	Intestine, rectum	Adenocarcinoma	I	T2N1M0
B02	M	55	Intestine, rectum	Adenocarcinoma	I~II	T3N1M0
B03	M	66	Intestine, rectum	Adenocarcinoma	I	T2N1M0
B04	M	72	Intestine, rectum	Adenocarcinoma	I	T1N0M0
B05	F	73	Intestine, rectum	Adenocarcinoma	I	T2N0M0
B06	M	53	Intestine, rectum	Adenocarcinoma	I	T2N0M0
B07	F	70	Intestine, rectum	Adenocarcinoma	I	T2N1M0
B08	M	79	Intestine, rectum	Adenocarcinoma	I	T2N0M0
B09	M	68	Intestine, rectum	Adenocarcinoma	I~II	T3N1M0
B10	F	42	Intestine, rectum	Adenocarcinoma	I~II	T3N0M0
B11	M	30	Intestine, rectum	Adenocarcinoma	I~II	T2N2M0
B12	M	29	Intestine, rectum	Adenocarcinoma	I~II	T3N0M0
B13	M	70	Intestine, rectum	Adenocarcinoma	I~II	T3N1M0
C01	M	59	Intestine, rectum	Adenocarcinoma	I~II	T2N0M0
C02	M	74	Intestine, rectum	Adenocarcinoma	I~II	T2N0M0
C03	M	52	Intestine, rectum	Adenocarcinoma	I~II	T2N0M0
C04	M	75	Intestine, rectum	Adenocarcinoma	I~II	T2N0M0
C05	M	32	Intestine, rectum	Adenocarcinoma	I~II	T3N1M0
C06	F	60	Intestine, rectum	Adenocarcinoma	I~II	T3N1M0
C07	F	56	Intestine, rectum	Adenocarcinoma	I~II	T3N1M0
C08	M	50	Intestine, rectum	Adenocarcinoma	I~II	T3N1M0
C09	F	73	Intestine, rectum	Adenocarcinoma	I~II	T3N1M0
C10	F	62	Intestine, rectum	Adenocarcinoma	I~II	T2N0M0
C11	M	67	Intestine, rectum	Adenocarcinoma	I~II	T3N0M0
C12	M	36	Intestine, rectum	Adenocarcinoma	I~II	T3N1M0
C13	M	78	Intestine, rectum	Adenocarcinoma	I~II	T3N0M0
D01	M	56	Intestine, rectum	Adenocarcinoma	II	T3N0M0



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D02	F	26	Intestine, rectum	Adenocarcinoma	II	T3N1M1
D03	M	52	Intestine, rectum	Adenocarcinoma	II	T2N0M0
D04	M	57	Intestine, rectum	Adenocarcinoma	II	T3N0M0
D05	F	47	Intestine, rectum	Adenocarcinoma	II	T2N0M0
D06	M	80	Intestine, rectum	Adenocarcinoma	II	T2N0M0
D07	M	80	Intestine, rectum	Adenocarcinoma	II	T3N1M0
D08	M	70	Intestine, rectum	Adenocarcinoma	II	T2N0M0
D09	F	66	Intestine, rectum	Adenocarcinoma	II	T2N0M0
D10	M	76	Intestine, rectum	Adenocarcinoma	II	T3N0M0
D11	M	87	Intestine, rectum	Adenocarcinoma	II	T3N1M0
D12	M	44	Intestine, rectum	Adenocarcinoma	II	T2N0M0
D13	M	49	Intestine, rectum	Adenocarcinoma	II	T2N0M0
E01	M	58	Intestine, rectum	Adenocarcinoma	II	T3N0M0
E02	F	74	Intestine, rectum	Adenocarcinoma	II	T3N0M0
E03	M	53	Intestine, rectum	Adenocarcinoma	II	T2N0M0
E04	F	56	Intestine, rectum	Adenocarcinoma	II	T3N1M0
E05	M	38	Intestine, rectum	Adenocarcinoma	II	T3N1M0
E06	F	38	Intestine, rectum	Adenocarcinoma	II	T3N2M0
E07	M	83	Intestine, rectum	Adenocarcinoma	II	T3N0M0
E08	F	84	Intestine, rectum	Adenocarcinoma	II	T3N0M0
E09	M	86	Intestine, rectum	Adenocarcinoma	II	T2N0M0
E10	M	63	Intestine, rectum	Adenocarcinoma	II	T3N0M0
E11	F	67	Intestine, rectum	Adenocarcinoma	II	T2N0M0
E12	M	68	Intestine, rectum	Adenocarcinoma	II	T3N1M0
E13	F	45	Intestine, rectum	Adenocarcinoma	I~II	T3N1M0
F01	M	49	Intestine, rectum	Adenocarcinoma	II	T3N1M0
F02	M	78	Intestine, rectum	Adenocarcinoma	II	T2N0M0
F03	M	80	Intestine, rectum	Adenocarcinoma	II	T2N1M0
F04	M	65	Intestine, rectum	Adenocarcinoma	II	T2N0M0
F05	M	54	Intestine, rectum	Adenocarcinoma	II	T2N0M0
F06	F	42	Intestine, rectum	Adenocarcinoma	II	T3N1M0
F07	M	60	Intestine, rectum	Adenocarcinoma	II	T2N0M0
F08	F	43	Intestine, rectum	Adenocarcinoma	II	T3N1M0
F09	M	72	Intestine, rectum	Adenocarcinoma	II	T3N2M0
F10	F	50	Intestine, rectum	Adenocarcinoma	II	T2N0M0
F11	F	55	Intestine, rectum	Adenocarcinoma	II	T3N0M0
F12	M	70	Intestine, rectum	Adenocarcinoma	II	T3N0M0
F13	M	54	Intestine, rectum	Adenocarcinoma	I	T3N1M0
G01	M	66	Intestine, rectum	Adenocarcinoma	II	T2N1M0
G02	M	65	Intestine, rectum	Adenocarcinoma	II	T2N0M0
G03	M	59	Intestine, rectum	Adenocarcinoma	II	T2N0M0
G04	F	57	Intestine, rectum	Adenocarcinoma	II	T2N0M0
G05	M	52	Intestine, rectum	Adenocarcinoma	II	T3N0M0
G06	M	69	Intestine, rectum	Adenocarcinoma	II	T3N1M0
G07	M	66	Intestine, rectum	Adenocarcinoma	II	T3N1M0
G08	F	51	Intestine, rectum	Adenocarcinoma	II	T3N0M0
G09	M	73	Intestine, rectum	Adenocarcinoma	II	T2N0M0
G10	M	79	Intestine, rectum	Adenocarcinoma	II	T2N0M0
G11	M	41	Intestine, rectum	Adenocarcinoma	II~III	T2N0M0
G12	F	73	Intestine, rectum	Adenocarcinoma	II~III	T2N0M0
H01	M	52	Intestine, rectum	Adenocarcinoma	II~III	T3N1M0
H02	M	75	Intestine, rectum	Adenocarcinoma	II~III	T2N1M0
H03	M	62	Intestine, rectum	Adenocarcinoma	II~III	T3N1M0
H04	M	54	Intestine, rectum	Adenocarcinoma	III	T3N0M0
H05	M	50	Intestine, rectum	Adenocarcinoma	II~III	T2N0M0
H06	M	50	Intestine, rectum	Adenocarcinoma	III	T3N1M0
H07	F	28	Intestine, rectum	Adenocarcinoma	III	T3N1M0
H08	M	67	Intestine, rectum	Adenocarcinoma	III	T2N0M0
H09	M	31	Intestine, rectum	Adenocarcinoma	III	T3N2M0
H10	F	30	Intestine, rectum	Adenocarcinoma	III	T3N1M0
H11	M	63	Intestine, rectum	Adenocarcinoma	III	T3N0M1



H12	M	44	Intestine, rectum	Undifferentiated carcinoma	null	T2N2M0
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Notes: Bake at 60C for ~60 minutes before use. If antigen retrieving is needed, it is important to avoid **direct-boiling and high pH or high strength** antigen retrieving buffer. For availability of complimentary IHC data, please contact us at info@pantomics.com.

Certified by: Langxing Pan, M.D.

TNM Classification: Colon and Rectum Carcinoma

T- Primary tumor

TX - Primary tumor cannot be assessed

TO - 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

NO - 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

MO - No distant metastasis

M1 - Distant metastasis