



Cat No: REC2281 - Rectum cancer tissue array

Lot#	Cores	Size	Cut	Format	QA/QC	Pantomics, Inc.	
REC228101	228	1.1mm	4um	12X19	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 containing 8 cases of normal/benign conditions and 220 cases of cancers with grading and TNM staging data.

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	F	56	Intestine, rectum	Normal	null	null
A04	M	68	Intestine, rectum	Villous adenoma	null	null
A05	F	71	Intestine, rectum	Villous adenoma	null	null
A06	M	77	Intestine, rectum	Villous adenoma	null	null
A07	M	37	Intestine, rectum	Villous adenoma	null	null
A08	M	62	Intestine, rectum	Villous adenoma	null	null
A09	M	56	Intestine, rectum	Adenocarcinoma	II	T3N0M0
A10	F	26	Intestine, rectum	Adenocarcinoma	II	T3N1M1
A11	M	52	Intestine, rectum	Adenocarcinoma	II	T2N0M0
A12	M	57	Intestine, rectum	Adenocarcinoma	II	T3N0M0
A13	M	54	Intestine, rectum	Adenocarcinoma	II	T3N0M0
A14	F	40	Intestine, rectum	Adenocarcinoma	I~II	T2N0M0
A15	M	74	Intestine, rectum	Adenocarcinoma	II	T2N0M0
A16	F	47	Intestine, rectum	Adenocarcinoma	II	T2N0M0
A17	M	41	Intestine, rectum	Adenocarcinoma	II~III	T2N0M0
A18	F	73	Intestine, rectum	Adenocarcinoma	II~III	T2N0M0
A19	M	80	Intestine, rectum	Adenocarcinoma	II	T2N0M0
B01	M	42	Intestine, rectum	Adenocarcinoma	II	T3N2M0
B02	F	54	Intestine, rectum	Adenocarcinoma	II	T3N2M0
B03	M	80	Intestine, rectum	Adenocarcinoma	II	T3N1M0
B04	F	58	Intestine, rectum	Adenocarcinoma	II	T3N1M0
B05	M	71	Intestine, rectum	Adenocarcinoma	II	T1N0M0
B06	M	50	Intestine, rectum	Adenocarcinoma	II~III	T2N0M0
B07	M	70	Intestine, rectum	Adenocarcinoma	II	T2N0M0
B08	F	66	Intestine, rectum	Adenocarcinoma	II	T2N0M0
B09	M	68	Intestine, rectum	Adenocarcinoma	II	T2N0M0
B10	M	68	Intestine, rectum	Adenocarcinoma	I~II	T3N1M0
B11	M	72	Intestine, rectum	Adenocarcinoma	II~III	T2N0M0
B12	M	76	Intestine, rectum	Adenocarcinoma	II	T3N0M0
B13	F	42	Intestine, rectum	Adenocarcinoma	I~II	T3N0M0
B14	M	91	Intestine, rectum	Mucinous adenocarcinoma	null	T3N0M0
B15	M	24	Intestine, rectum	Lymphoma, non-Hodgkin B cell lymphoma	null	null
B16	M	73	Intestine, rectum	Adenocarcinoma	II	T2N0M0
B17	F	67	Intestine, rectum	Adenocarcinoma	II	T2N1M0
B18	M	79	Intestine, rectum	Adenoma	null	null
B19	M	87	Intestine, rectum	Adenocarcinoma	II	T3N1M0
C01	M	71	Intestine, rectum	Adenocarcinoma	II	T3N0M0
C02	M	44	Intestine, rectum	Adenocarcinoma	II	T2N0M0



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C03	M	49	Intestine, rectum	Adenocarcinoma	II	T2N0M0
C04	M	58	Intestine, rectum	Adenocarcinoma	II	T3N1M0
C05	F	64	Intestine, rectum	Adenocarcinoma	II	T2N0M0
C06	M	58	Intestine, rectum	Adenocarcinoma	II	T3N0M0
C07	M	30	Intestine, rectum	Adenocarcinoma	I~II	T2N2M0
C08	M	63	Intestine, rectum	Adenocarcinoma	II	T3N1M0
C09	M	42	Intestine, rectum	Adenocarcinoma	I~II	T3N1M0
C10	M	93	Intestine, rectum	Adenocarcinoma	II	T3N0M0
C11	F	74	Intestine, rectum	Adenocarcinoma	II	T3N0M0
C12	M	53	Intestine, rectum	Adenocarcinoma	II	T2N0M0
C13	F	56	Intestine, rectum	Adenocarcinoma	II	T3N1M0
C14	M	66	Intestine, rectum	Adenocarcinoma	II	T2N1M0
C15	F	57	Intestine, rectum	Adenocarcinoma	II	T2N0M0
C16	F	58	Intestine, rectum	Adenocarcinoma	I	T2N0M0
C17	M	53	Intestine, rectum	Adenocarcinoma	I	T3N0M0
C18	F	37	Intestine, rectum	Adenocarcinoma	I	T3N0M0
C19	F	50	Intestine, rectum	Adenocarcinoma	I	T2N1M0
D01	M	66	Intestine, rectum	Adenocarcinoma	II	T3N0M0
D02	M	39	Intestine, rectum	Adenocarcinoma	III	T3N1M0
D03	M	38	Intestine, rectum	Adenocarcinoma	II	T3N1M0
D04	M	49	Intestine, rectum	Adenocarcinoma	II	T3N1M0
D05	F	73	Intestine, rectum	Adenocarcinoma	I	T3N1M0
D06	M	40	Intestine, rectum	Adenocarcinoma	I	T3N0M0
D07	F	38	Intestine, rectum	Adenocarcinoma	II	T2N2M0
D08	F	29	Intestine, rectum	Adenocarcinoma	III	T3N0M0
D09	M	47	Intestine, rectum	Adenocarcinoma	II	T2N0M0
D10	M	50	Intestine, rectum	Adenocarcinoma	III	T3N1M0
D11	M	73	Intestine, rectum	Adenocarcinoma	II	T2N0M0
D12	F	28	Intestine, rectum	Adenocarcinoma	III	T3N1M0
D13	M	44	Intestine, rectum	Adenocarcinoma	III	T3N2M0
D14	M	50	Intestine, rectum	Gastrointestinal stromal tumor, GIST	III	null
D15	M	61	Intestine, rectum	Adenocarcinoma	II	T3N0M0
D16	M	67	Intestine, rectum	Adenocarcinoma	III	T2N0M0
D17	F	63	Intestine, rectum	Adenocarcinoma	II	T2N0M0
D18	F	49	Intestine, rectum	Adenocarcinoma	II	T2N0M0
D19	M	49	Intestine, rectum	Adenocarcinoma	III	T3N1M0
E01	M	44	Intestine, rectum	Undifferentiated carcinoma	null	T2N2M0
E02	M	55	Intestine, rectum	Adenocarcinoma	I~II	T3N1M0
E03	F	34	Intestine, rectum	Adenocarcinoma	III	T3N1M0
E04	F	60	Intestine, rectum	Adenocarcinoma	II	T3N1M0
E05	M	83	Intestine, rectum	Adenocarcinoma	II	T3N1M0
E06	M	57	Intestine, rectum	Adenocarcinoma	II	T2N1M0
E07	M	70	Intestine, rectum	Adenocarcinoma	II	T3N1M0
E08	M	79	Intestine, rectum	Adenocarcinoma	II	T2N0M0
E09	F	84	Intestine, rectum	Adenocarcinoma	II	T3N0M0
E10	M	69	Intestine, rectum	Adenocarcinoma	II	T3N0M0
E11	M	45	Intestine, rectum	Adenocarcinoma	II	T2N0M0
E12	M	84	Intestine, rectum	Adenocarcinoma	II	T3N0M0
E13	M	50	Intestine, rectum	Mucinous adenocarcinoma	null	T3N2M0
E14	M	31	Intestine, rectum	Adenocarcinoma	III	T3N2M0
E15	M	86	Intestine, rectum	Adenocarcinoma	II	T2N0M0
E16	F	63	Intestine, rectum	Adenocarcinoma	II	T2N0M0
E17	M	63	Intestine, rectum	Adenocarcinoma	I	T2N0M0
E18	M	63	Intestine, rectum	Adenocarcinoma	II	T3N0M0
E19	M	66	Intestine, rectum	Adenocarcinoma	I	T2N1M0
F01	F	67	Intestine, rectum	Adenocarcinoma	II	T2N0M0
F02	M	68	Intestine, rectum	Adenocarcinoma	II	T3N1M0
F03	M	49	Intestine, rectum	Adenocarcinoma	II	T3N1M0
F04	M	65	Intestine, rectum	Adenocarcinoma	I~II	T2N0M0
F05	M	73	Intestine, rectum	Adenocarcinoma	II~III	T3N0M0
F06	M	64	Intestine, rectum	Adenocarcinoma	II	T3N1M0

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F07	M	72	Intestine, rectum	Adenocarcinoma	I	T1N0M0
F08	M	38	Intestine, rectum	Adenocarcinoma	II	T3N1M0
F09	M	56	Intestine, rectum	Adenocarcinoma	II	T2N1M0
F10	M	44	Intestine, rectum	Adenocarcinoma	II	T2N0M0
F11	M	60	Intestine, rectum	Adenocarcinoma	III	T3N2M0
F12	F	36	Intestine, rectum	Adenocarcinoma	II	T2N0M0
F13	F	71	Intestine, rectum	Adenocarcinoma	II	T3N0M0
F14	M	44	Intestine, rectum	Adenocarcinoma	II	T3N1M0
F15	F	42	Intestine, rectum	Adenocarcinoma	I	T2N0M0
F16	M	56	Intestine, rectum	Adenocarcinoma	II	T2N0M0
F17	M	70	Intestine, rectum	Adenocarcinoma	II	T3N1M0
F18	M	52	Intestine, rectum	Adenocarcinoma	II	T3N0M0
F19	M	78	Intestine, rectum	Adenocarcinoma	II	T2N0M0
G01	M	29	Intestine, rectum	Adenocarcinoma	I~II	T3N0M0
G02	M	67	Intestine, rectum	Adenocarcinoma	I~II	T3N1M0
G03	M	44	Intestine, rectum	Mucinous adenocarcinoma	null	T2N2M0
G04	M	80	Intestine, rectum	Adenocarcinoma	II	T2N1M0
G05	F	56	Intestine, rectum	Undifferentiated carcinoma	null	T3N0M0
G06	M	70	Intestine, rectum	Adenocarcinoma	I~II	T3N1M0
G07	F	44	Intestine, rectum	Adenocarcinoma	II	T2N0M0
G08	M	65	Intestine, rectum	Adenocarcinoma	II	T3N0M0
G09	F	73	Intestine, rectum	Adenocarcinoma	I	T2N0M0
G10	M	66	Intestine, rectum	Papillary adenocarcinoma	null	T3N0M0
G11	M	67	Intestine, rectum	Adenocarcinoma	II	T3N1M0
G12	M	59	Intestine, rectum	Adenocarcinoma	I~II	T2N0M0
G13	F	45	Intestine, rectum	Adenocarcinoma	III	T3N2M0
G14	F	39	Intestine, rectum	Adenocarcinoma	III	T3N2M0
G15	F	63	Intestine, rectum	Adenocarcinoma	I~II	T2N0M0
G16	M	84	Intestine, rectum	Melanoma	null	null
G17	M	54	Intestine, rectum	Papillary adenocarcinoma	null	T1N0M0
G18	M	52	Intestine, rectum	Adenocarcinoma	III	T2N0M0
G19	F	40	Intestine, rectum	Adenocarcinoma	I~II	T3N0M0
H01	M	53	Intestine, rectum	Mucinous adenocarcinoma	null	T2N1M0
H02	M	54	Intestine, rectum	Adenocarcinoma	II	T2N0M0
H03	M	62	Intestine, rectum	Adenocarcinoma	II	T2N0M0
H04	F	70	Intestine, rectum	Adenocarcinoma	II	T3N0M0
H05	M	65	Intestine, rectum	Adenocarcinoma	II	T2N0M0
H06	F	42	Intestine, rectum	Adenocarcinoma	II	T3N1M0
H07	M	74	Intestine, rectum	Adenocarcinoma	I~II	T2N0M0
H08	M	52	Intestine, rectum	Adenocarcinoma	I~II	T2N0M0
H09	M	60	Intestine, rectum	Adenocarcinoma	II	T2N0M0
H10	M	53	Intestine, rectum	Adenocarcinoma	I	T2N0M0
H11	M	50	Intestine, rectum	Adenocarcinoma	II	T3N1M0
H12	M	65	Intestine, rectum	Adenocarcinoma	I~II	T3N0M0
H13	M	52	Intestine, rectum	Adenocarcinoma	II~III	T3N1M0
H14	M	72	Intestine, rectum	Adenocarcinoma	I~II	T3N0M0
H15	F	40	Intestine, rectum	Adenocarcinoma	II	T3N0M0
H16	F	43	Intestine, rectum	Adenocarcinoma	II	T3N1M0
H17	F	68	Intestine, rectum	Adenocarcinoma	III	T2N0M0
H18	F	51	Intestine, rectum	Adenocarcinoma	I~II	T3N1M0
H19	M	75	Intestine, rectum	Adenocarcinoma	II~III	T2N1M0
I01	M	45	Intestine, rectum	Adenocarcinoma	II	T3N0M0
I02	M	49	Intestine, rectum	Papillary adenocarcinoma	null	T3N0M0
I03	F	34	Intestine, rectum	Signet ring cell carcinoma	null	T3N1M0
I04	M	72	Intestine, rectum	Adenocarcinoma	II	T3N2M0
I05	M	73	Intestine, rectum	Papillary adenocarcinoma	null	T2N1M0
I06	F	50	Intestine, rectum	Adenocarcinoma	II	T2N0M0
I07	F	55	Intestine, rectum	Adenocarcinoma	II	T2N0M0
I08	M	70	Intestine, rectum	Adenocarcinoma	II	T3N0M0
I09	M	66	Intestine, rectum	Adenocarcinoma	II	T2N1M0
I10	M	58	Intestine, rectum	Papillary adenocarcinoma	null	T1N0M0



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I11	M	65	Intestine, rectum	Adenocarcinoma	II	T2N0M0
I12	M	59	Intestine, rectum	Adenocarcinoma	II	T2N0M0
I13	M	32	Intestine, rectum	Adenocarcinoma	I~II	T3N1M0
I14	M	74	Intestine, rectum	Papillary adenocarcinoma	null	T2N0M0
I15	M	62	Intestine, rectum	Adenocarcinoma	II~III	T3N1M0
I16	F	57	Intestine, rectum	Adenocarcinoma	II	T2N0M0
I17	M	52	Intestine, rectum	Adenocarcinoma	II	T3N0M0
I18	F	39	Intestine, rectum	Adenocarcinoma	II	T2N0M0
I19	M	69	Intestine, rectum	Adenocarcinoma	II	T3N1M0
J01	F	65	Intestine, rectum	Adenocarcinoma	II	T3N1M0
J02	M	66	Intestine, rectum	Adenocarcinoma	II	T3N1M0
J03	F	60	Intestine, rectum	Adenocarcinoma	I~II	T3N1M0
J04	M	62	Intestine, rectum	Adenocarcinoma	II	T2N0M0
J05	F	79	Intestine, rectum	Adenocarcinoma	II	T3N0M0
J06	M	49	Intestine, rectum	Adenocarcinoma	I~II	T2N0M0
J07	F	30	Intestine, rectum	Adenocarcinoma	III	T3N1M0
J08	F	56	Intestine, rectum	Adenocarcinoma	I~II	T3N1M0
J09	F	45	Intestine, rectum	Adenocarcinoma	I~II	T2N0M0
J10	M	50	Intestine, rectum	Adenocarcinoma	I~II	T3N1M0
J11	F	70	Intestine, rectum	Adenocarcinoma	I	T2N1M0
J12	M	80	Intestine, rectum	Adenocarcinoma	II	T2N0M0
J13	F	51	Intestine, rectum	Adenocarcinoma	II	T3N0M0
J14	M	67	Intestine, rectum	Adenocarcinoma	I~II	T2N0M0
J15	F	73	Intestine, rectum	Adenocarcinoma	I~II	T3N1M0
J16	F	62	Intestine, rectum	Adenocarcinoma	I~II	T2N0M0
J17	F	49	Intestine, rectum	Gastrointestinal stromal tumor, GIST	null	null
J18	M	51	Intestine, rectum	Adenocarcinoma	I~II	T3N1M0
J19	M	67	Intestine, rectum	Adenocarcinoma	I~II	T3N0M0
K01	F	53	Intestine, rectum	Mucinous adenocarcinoma	null	T3N0M0
K02	M	79	Intestine, rectum	Adenocarcinoma	I	T2N0M0
K03	M	69	Intestine, rectum	Adenocarcinoma	I~II	T3N0M0
K04	M	36	Intestine, rectum	Adenocarcinoma	I~II	T3N1M0
K05	M	78	Intestine, rectum	Adenocarcinoma	I~II	T3N0M0
K06	M	43	Intestine, rectum	Adenocarcinoma	II	T2N0M0
K07	F	38	Intestine, rectum	Papillary adenocarcinoma	null	T2N0M0
K08	M	65	Intestine, rectum	Adenocarcinoma	II~III	T3N1M0
K09	M	63	Intestine, rectum	Adenocarcinoma	III	T3N0M1
K10	M	73	Intestine, rectum	Adenocarcinoma	II	T2N0M0
K11	M	79	Intestine, rectum	Adenocarcinoma	II	T2N0M0
K12	M	53	Intestine, rectum	Adenocarcinoma	I~II	T2N0M0
K13	F	73	Intestine, rectum	Adenocarcinoma	II	T2N1M0
K14	M	79	Intestine, rectum	Adenocarcinoma	II	T3N0M0
K15	F	34	Intestine, rectum	Adenocarcinoma	II	T3N1M0
K16	F	36	Intestine, rectum	Adenocarcinoma	II	T3N0M0
K17	M	75	Intestine, rectum	Adenocarcinoma	I~II	T2N0M0
K18	F	45	Intestine, rectum	Adenocarcinoma	I~II	T3N1M0
K19	M	62	Intestine, rectum	Adenocarcinoma	I~II	T2N1M0
L01	F	41	Intestine, rectum	Adenocarcinoma	II	T2N1M0
L02	M	60	Intestine, rectum	Adenocarcinoma	I	T1N1M0
L03	M	54	Intestine, rectum	Adenocarcinoma	I	T3N1M0
L04	M	56	Intestine, rectum	Adenocarcinoma	II	T3N2M0
L05	M	48	Intestine, rectum	Adenocarcinoma	II	T2N0M0
L06	M	64	Intestine, rectum	Adenocarcinoma	I~II	T1N1M0
L07	M	70	Intestine, rectum	Adenocarcinoma	II	T3N1M0
L08	M	55	Intestine, rectum	Papillary adenocarcinoma	null	T2N0M0
L09	F	50	Intestine, rectum	Adenocarcinoma	II~III	T3N0M0
L10	M	86	Intestine, rectum	Adenocarcinoma	II	T3N0M0
L11	F	66	Intestine, rectum	Adenocarcinoma	I~II	T3N0M0
L12	F	49	Intestine, rectum	Carcinoid	null	T2N0M0
L13	M	51	Intestine, rectum	Adenocarcinoma	II~III	T3N2M0
L14	M	78	Intestine, rectum	Adenocarcinoma	II	T3N0M0

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L15	F	53	Intestine, rectum	Adenocarcinoma	II	T3N1M0
L16	M	58	Intestine, rectum	Adenocarcinoma	I~II	T3N0M0
L17	M	65	Intestine, rectum	Adenocarcinoma	II	T3N0M0
L18	M	58	Intestine, rectum	Adenocarcinoma	III	T2N0M0
L19	M	27	Intestine, rectum	Adenocarcinoma	II	T3N0M0

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: Fancai Li, 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