



Cat No: REC481 – Rectal paired cancer/normal tissue array, set 1

Lot#	Cores	Size	Cut	Format	QA/QC
REC48101	48	2mm	4um	6X8	H&E, IHC anti-Cytokeratin

Recommended applications: For research use only. Designed for rectum normal vs cancer RNA or protein tissue profiling using IHC or ISH. Duplicated tumor tissues from each case are arrayed to minimize heterogeneity.

Description: Set 1, 16 cases of rectal cancer (purple), each in duplicates, paired with normal rectum tissues (pink) from the same patients as controls.

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	51	Intestine, rectum	Adenocarcinoma	I~II	T2N0M0
A02	F	71	Intestine, rectum	Adenocarcinoma	I~II	T3N0M0
A03	M	56	Intestine, rectum	Adenocarcinoma	I~II	T3N0M0
A04	M	66	Intestine, rectum	Adenocarcinoma	II	T2N0M0
A05	M	71	Intestine, rectum	Adenocarcinoma	II	T3N0M0
A06	F	62	Intestine, rectum	Adenocarcinoma	II	T3N0M0
A07	F	53	Intestine, rectum	Adenocarcinoma	II	T3N0M0
A08	M	65	Intestine, rectum	Adenocarcinoma	II~III	T3N0M0
B01	M	51	Intestine, rectum	Adenocarcinoma	I~II	T2N0M0
B02	F	71	Intestine, rectum	Adenocarcinoma	I~II	T3N0M0
B03	M	56	Intestine, rectum	Adenocarcinoma	I~II	T3N0M0
B04	M	66	Intestine, rectum	Adenocarcinoma	II	T2N0M0
B05	M	71	Intestine, rectum	Adenocarcinoma	II	T3N0M0
B06	F	62	Intestine, rectum	Adenocarcinoma	II	T3N0M0
B07	F	53	Intestine, rectum	Adenocarcinoma	II	T3N0M0
B08	M	65	Intestine, rectum	Adenocarcinoma	II~III	T3N0M0
C01	M	51	Intestine, rectum	Uninvolved rectum tissue of A1, B1	null	null
C02	F	71	Intestine, rectum	Uninvolved rectum tissue of A2, B2	null	null
C03	M	56	Intestine, rectum	Uninvolved rectum tissue of A3, B3	null	null
C04	M	66	Intestine, rectum	Uninvolved rectum tissue of A4, B4	null	null
C05	M	71	Intestine, rectum	Uninvolved rectum tissue of A5, B5	null	null
C06	F	62	Intestine, rectum	Uninvolved rectum tissue of A6, B6	null	null
C07	F	53	Intestine, rectum	Uninvolved rectum tissue of A7, B7	null	null
C08	M	65	Intestine, rectum	Uninvolved rectum tissue of A8, B8	null	null
D01	M	51	Intestine, rectum	Adenocarcinoma	II~III	T3N1M0
D02	F	63	Intestine, rectum	Adenocarcinoma	II~III	T3N1M0
D03	F	32	Intestine, rectum	Adenocarcinoma	II~III	T3N1M0
D04	F	50	Intestine, rectum	Adenocarcinoma	II~III	T3N0M0
D05	F	63	Intestine, rectum	Adenocarcinoma	III	T3N0M0
D06	M	60	Intestine, rectum	Adenocarcinoma	III	T3N1M0
D07	F	50	Intestine, rectum	Adenocarcinoma	III	T3N1M0
D08	M	50	Intestine, rectum	Adenocarcinoma	II~III	T2N0M0
E01	M	51	Intestine, rectum	Adenocarcinoma	II~III	T3N1M0
E02	F	63	Intestine, rectum	Adenocarcinoma	II~III	T3N1M0
E03	F	32	Intestine, rectum	Adenocarcinoma	II~III	T3N1M0
E04	F	50	Intestine, rectum	Adenocarcinoma	II~III	T3N0M0



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E05	F	63	Intestine, rectum	Adenocarcinoma	III	T3N0M0
E06	M	60	Intestine, rectum	Adenocarcinoma	III	T3N1M0
E07	F	50	Intestine, rectum	Adenocarcinoma	III	T3N1M0
E08	M	50	Intestine, rectum	Adenocarcinoma	II~III	T2N0M0
F01	M	51	Intestine, rectum	Uninvolved rectum tissue of D1, E1	null	null
F02	F	63	Intestine, rectum	Uninvolved rectum tissue of D2, E2	null	null
F03	F	32	Intestine, rectum	Uninvolved rectum tissue of D3, E3	null	null
F04	F	50	Intestine, rectum	Uninvolved rectum tissue of D4, E4	null	null
F05	F	63	Intestine, rectum	Uninvolved rectum tissue of D5, E5	null	null
F06	M	60	Intestine, rectum	Uninvolved rectum tissue of D6, E6	null	null
F07	F	50	Intestine, rectum	Uninvolved rectum tissue of D7, E7	null	null
F08	M	50	Intestine, rectum	Uninvolved rectum tissue of D8, E8	null	null

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.

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