
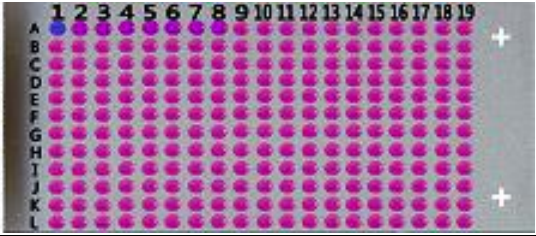




Advancing Biomedical Science Through Tissue Arrays

Cat No: KIC2281 - Kidney cancer tissue array

Lot#	Cores	Size	Cut	Format	QA/QC	QUICKARRAYS, INC.	
KIC228101	228	1.1mm	4um	12X19	H&E, IHC anti-Cytokeratin		

Recommended applications: For research use only. Designed for IHC or ISH based protein or RNA tissue profiling in kidney cancers.

Description: Kidney cancer tissue array containing 28 cases of normal-benign conditions and 200 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	F	62	Kidney	Normal	null	null
A02	F	70	Kidney	Normal	null	null
A03	F	62	Kidney	Normal	null	null
A04	M	30	Kidney	Normal	null	null
A05	M	44	Kidney	Normal	null	null
A06	F	52	Kidney	Normal	null	null
A07	M	64	Kidney	Normal	null	null
A08	M	56	Kidney	Normal	null	null
A09	F	61	Kidney	Normal	null	null
A10	F	56	Kidney	Normal	null	null
A11	M	23	Kidney	Normal	null	null
A12	F	69	Kidney	Normal	null	null
A13	F	40	Kidney	Normal	null	null
A14	M	37	Kidney	Normal	null	null
A15	M	68	Kidney	Normal	null	null
A16	M	56	Kidney	Normal	null	null
A17	M	63	Kidney	Normal	null	null
A18	F	12	Kidney	Normal	null	null
A19	F	58	Kidney	Normal	null	null
B01	M	48	Kidney	Normal	null	null
B02	F	49	Kidney	Normal	null	null
B03	M	76	Kidney	Normal	null	null
B04	F	41	Kidney	Normal	null	null
B05	M	71	Kidney	Normal	null	null
B06	M	36	Kidney	Normal	null	null
B07	F	65	Kidney	Normal	null	null
B08	M	75	Kidney	Normal	null	null
B09	M	54	Kidney	Normal	null	null
B10	M	57	Kidney	Squamous cell carcinoma	I~II	T2N1M0
B11	M	54	Kidney	Transitional cell carcinoma	II	T1N0M0
B12	M	69	Kidney	Clear cell carcinoma	null	T2N0M0
B13	F	55	Kidney	Granular cell carcinoma	null	T2N0M0
B14	F	64	Kidney	Clear cell carcinoma	null	T1N0M0
B15	M	60	Kidney	Clear cell carcinoma	null	T1N0M0
B16	M	54	Kidney	Clear cell carcinoma	null	T1N0M0
B17	M	34	Kidney	Chromophobe renal cell carcinoma	null	T1N0M0
B18	M	69	Kidney	Granular cell carcinoma	null	T1N0M0
B19	F	44	Kidney	Clear cell carcinoma	null	T1N0M0
C01	M	43	Kidney	Granular cell carcinoma	null	T1N0M0
C02	M	56	Kidney	Clear cell carcinoma	null	T1N0M0
C03	M	60	Kidney	Clear cell carcinoma	null	T1N0M0



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C04	F	81	Kidney	Transitional cell carcinoma	III	T2N0M0
C05	F	60	Kidney	Transitional cell carcinoma	II	T1N0M0
C06	M	58	Kidney	Papillary renal cell carcinoma	null	T1N0M0
C07	F	57	Kidney	Clear cell carcinoma	null	T1N0M0
C08	M	44	Kidney	Clear cell carcinoma	null	T1N0M0
C09	M	54	Kidney	Clear cell carcinoma	null	T1N0M0
C10	M	33	Kidney	Clear cell carcinoma	null	T2N0M0
C11	M	75	Kidney	Clear cell carcinoma	null	T2N0M0
C12	F	52	Kidney	Clear cell carcinoma	null	T2N0M0
C13	M	45	Kidney	Clear cell carcinoma	null	T1N0M0
C14	F	73	Kidney	Clear cell carcinoma	null	T1N0M0
C15	F	68	Kidney	Clear cell carcinoma	null	T1N0M0
C16	M	52	Kidney	Clear cell carcinoma	null	T2N0M0
C17	M	44	Kidney	Clear cell carcinoma	null	T2N0M0
C18	F	64	Kidney	Clear cell carcinoma	null	T1N0M0
C19	F	61	Kidney	Squamous cell carcinoma	I	T1N0M0
D01	M	77	Kidney	Clear cell carcinoma	II~III	T1N2M0
D02	M	46	Kidney	Clear cell carcinoma	null	T1N0M0
D03	F	68	Kidney	Squamous cell carcinoma	I	T2N0M0
D04	F	71	Kidney	Clear cell carcinoma	null	T1N0M0
D05	M	68	Kidney	Clear cell carcinoma	null	T1N0M0
D06	F	32	Kidney	Clear cell carcinoma	null	T1N0M0
D07	M	45	Kidney	Clear cell carcinoma	null	T1N0M0
D08	F	79	Kidney	Clear cell carcinoma	null	T1N0M0
D09	M	63	Kidney	Transitional cell carcinoma	II	T2N0M0
D10	M	40	Kidney	Clear cell carcinoma	null	T2N0M0
D11	M	53	Kidney	Papillary renal cell carcinoma	null	T2N0M0
D12	M	56	Kidney	Clear cell carcinoma	null	T1N0M0
D13	M	72	Kidney	Transitional cell carcinoma	II	T1N0M0
D14	F	49	Kidney	Clear cell carcinoma	null	T1N0M0
D15	M	66	Kidney	Granular cell carcinoma	null	T2N0M0
D16	F	30	Kidney	Papillary renal cell carcinoma	null	T2N0M0
D17	F	60	Kidney	Clear cell carcinoma	null	T1N0M0
D18	F	34	Kidney	Clear cell carcinoma	null	T1N1M0
D19	M	83	Kidney	Clear cell carcinoma	null	T1N0M0
E01	M	48	Kidney	Clear cell carcinoma	null	T1N0M0
E02	M	86	Kidney	Chromophobe renal cell carcinoma	null	T1N0M0
E03	M	46	Kidney	Granular cell carcinoma	null	T1N0M0
E04	M	38	Kidney	Granular cell carcinoma	null	T1N0M0
E05	M	58	Kidney	Transitional cell carcinoma	II	T1N0M0
E06	F	60	Kidney	Clear cell carcinoma	null	T1N0M0
E07	M	53	Kidney	Granular cell carcinoma	null	T1N0M0
E08	M	28	Kidney	Clear cell carcinoma	null	T1N0M0
E09	M	55	Kidney	Granular cell carcinoma	null	T1N0M0
E10	F	40	Kidney	Clear cell carcinoma	null	T1N0M0
E11	F	45	Kidney	Clear cell carcinoma	null	T1N0M0
E12	F	60	Kidney	Clear cell carcinoma	null	T1N0M0
E13	F	39	Kidney	Renal cell carcinoma	III	T1N0M0
E14	M	53	Kidney	Transitional cell carcinoma	II	T1N0M0
E15	M	36	Kidney	Granular cell carcinoma	null	T1N0M0
E16	F	62	Kidney	Transitional cell carcinoma	null	T2N0M0
E17	M	49	Kidney	Transitional cell carcinoma	II~III	T1N0M0
E18	M	59	Kidney	Papillary renal cell carcinoma	null	T1N0M0
E19	M	71	Kidney	Clear cell carcinoma	null	T1N0M0
F01	M	60	Kidney	Clear cell carcinoma	null	T1N0M0
F02	M	46	Kidney	Clear cell carcinoma	null	T2N0M0
F03	M	63	Kidney	Granular cell carcinoma	null	T1N0M0
F04	M	51	Kidney	Clear cell carcinoma	null	T2N0M0
F05	F	36	Kidney	Granular cell carcinoma	null	T1N0M0
F06	M	63	Kidney	Granular cell carcinoma	null	T1N0M0
F07	F	77	Kidney	Clear cell carcinoma	null	T1N0M0
F08	M	46	Kidney	Granular cell carcinoma	null	T1N0M0



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F09	M	61	Kidney	Clear cell carcinoma	null	T1N0M0
F10	M	78	Kidney	Transitional cell carcinoma	II	T1N0M0
F11	M	46	Kidney	Clear cell carcinoma	null	T2N0M0
F12	M	66	Kidney	Clear cell carcinoma	null	T2N0M0
F13	M	78	Kidney	Clear cell carcinoma	null	T1N0M0
F14	M	44	Kidney	Chromophobe renal cell carcinoma	null	T1N0M0
F15	F	44	Kidney	Clear cell carcinoma	null	T1N0M0
F16	F	69	Kidney	Clear cell carcinoma	null	T1N0M0
F17	M	42	Kidney	Clear cell carcinoma	null	T2N0M0
F18	F	42	Kidney	Transitional cell carcinoma	null	T1N0M0
F19	F	50	Kidney	Clear cell carcinoma	null	T1N0M0
G01	M	49	Kidney	Clear cell carcinoma	null	T1N0M0
G02	M	54	Kidney	Clear cell carcinoma	null	T3N0M0
G03	M	58	Kidney	Clear cell carcinoma	null	T1N0M0
G04	M	40	Kidney	Sarcomatoid renal cell carcinoma	III	T1N0M0
G05	M	30	Kidney	Granular cell carcinoma	null	T1N0M0
G06	M	70	Kidney	Transitional cell carcinoma	II~III	T1N0M0
G07	M	62	Kidney	Granular cell carcinoma	null	T1N0M0
G08	F	48	Kidney	Clear cell carcinoma	III	T2N0M0
G09	F	13	Kidney	Clear cell carcinoma	null	T1N0M0
G10	M	61	Kidney	Granular cell carcinoma	null	T4N0M0
G11	F	66	Kidney	Transitional cell carcinoma	II	T2N0M0
G12	F	36	Kidney	Clear cell carcinoma	null	T2N2M0
G13	M	66	Kidney	Clear cell carcinoma	null	T1N0M0
G14	M	49	Kidney	Clear cell carcinoma	null	T2N0M0
G15	F	36	Kidney	Clear cell carcinoma	null	T2N0M0
G16	M	49	Kidney	Clear cell carcinoma	null	T2N0M0
G17	M	61	Kidney	Squamous cell carcinoma	I	T2N0M0
G18	M	58	Kidney	Clear cell carcinoma	null	T1N0M0
G19	M	63	Kidney	Clear cell carcinoma	null	T1N0M0
H01	M	66	Kidney	Transitional cell carcinoma	II	T3N0M0
H02	M	47	Kidney	Transitional cell carcinoma	I~II	T2N0M0
H03	M	45	Kidney	Granular cell carcinoma	null	T2N0M0
H04	M	52	Kidney	Papillary renal cell carcinoma	null	T1N0M0
H05	M	39	Kidney	Clear cell carcinoma	null	T2N0M0
H06	M	73	Kidney	Papillary renal cell carcinoma	null	T1N1M0
H07	F	40	Kidney	Papillary renal cell carcinoma	null	T1N1M0
H08	M	68	Kidney	Transitional cell carcinoma	II	T2N0M0
H09	F	68	Kidney	Clear cell carcinoma	null	T1N0M0
H10	M	46	Kidney	Squamous cell carcinoma	I	T2N0M0
H11	M	59	Kidney	Papillary renal cell carcinoma	null	T3N0M0
H12	F	51	Kidney	Clear cell carcinoma	null	T1N0M0
H13	F	67	Kidney	Clear cell carcinoma	II	T1N0M0
H14	M	44	Kidney	Transitional cell carcinoma	null	T1N0M0
H15	M	53	Kidney	Chromophobe renal cell carcinoma	null	T1N0M0
H16	M	58	Kidney	Clear cell carcinoma	null	T2N0M0
H17	M	35	Kidney	Clear cell carcinoma	null	T2N0M0
H18	M	61	Kidney	Clear cell carcinoma	null	T1N0M0
H19	M	43	Kidney	Chromophobe renal cell carcinoma	null	T2N0M0
I01	F	82	Kidney	Chromophobe renal cell carcinoma	null	T2N0M0
I02	M	70	Kidney	Eosinophilic renal cell carcinoma	null	T2N0M0
I03	M	48	Kidney	Clear cell carcinoma	null	T2N0M0
I04	M	68	Kidney	Clear cell carcinoma	null	T2N0M0
I05	F	48	Kidney	Granular cell carcinoma	null	T2N0M0
I06	M	48	Kidney	Transitional cell carcinoma	II	T1N0M0
I07	F	46	Kidney	Squamous cell carcinoma	II	T2N0M0
I08	F	59	Kidney	Granular cell carcinoma	null	T2N0M0
I09	M	72	Kidney	Transitional cell carcinoma	II	T1N0M0
I10	F	67	Kidney	Transitional cell carcinoma	III	T1N0M0
I11	M	45	Kidney	Chromophobe renal cell carcinoma	null	T1N0M0
I12	M	54	Kidney	Clear cell carcinoma	null	T2N0M0
I13	M	57	Kidney	Clear cell carcinoma	null	T1N0M0



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I14	F	60	Kidney	Granular cell carcinoma	null	T1N0M0
I15	F	46	Kidney	Granular cell carcinoma	null	T1N1M0
I16	F	48	Kidney	Transitional cell carcinoma	III	T1N0M0
I17	M	47	Kidney	Clear cell carcinoma	null	T1N0M0
I18	M	21	Kidney	Clear cell carcinoma	null	T2N0M0
I19	M	56	Kidney	Granular cell carcinoma	null	T1N0M0
J01	M	61	Kidney	Squamous cell carcinoma	II	T2N1M0
J02	M	40	Kidney	Clear cell carcinoma	null	T1N0M0
J03	M	53	Kidney	Papillary renal cell carcinoma	null	T1N0M0
J04	M	79	Kidney	Transitional cell carcinoma	II	T3N0M0
J05	F	53	Kidney	Transitional cell carcinoma	I	T3N0M0
J06	M	50	Kidney	Granular cell carcinoma	null	T3N0M0
J07	F	20	Kidney	Clear cell carcinoma	null	T1N0M0
J08	F	69	Kidney	Clear cell carcinoma	null	T1N0M0
J09	M	33	Kidney	Granular cell carcinoma	null	T2N1M0
J10	M	52	Kidney	Clear cell carcinoma	null	T1N0M0
J11	M	71	Kidney	Clear cell carcinoma	null	T1N0M0
J12	M	60	Kidney	Clear cell carcinoma	null	T2N0M0
J13	M	68	Kidney	Transitional cell carcinoma	null	T2N0M0
J14	M	70	Kidney	Squamous cell carcinoma	I	T3N0M0
J15	F	65	Kidney	Clear cell carcinoma	II~III	T1N0M0
J16	M	53	Kidney	Chromophobe renal cell carcinoma	null	T1N0M0
J17	M	67	Kidney	Clear cell carcinoma	null	T1N0M0
J18	F	39	Kidney	Granular cell carcinoma	null	T1N0M0
J19	F	40	Kidney	Clear cell carcinoma	null	T1N0M0
K01	M	81	Kidney	Transitional cell carcinoma	null	T1N0M0
K02	M	62	Kidney	Clear cell carcinoma	II	T2N0M0
K03	M	65	Kidney	Granular cell carcinoma	null	T1N0M0
K04	M	40	Kidney	Clear cell carcinoma	II	T3N0M0
K05	M	50	Kidney	Papillary renal cell carcinoma	null	T1N0M0
K06	M	53	Kidney	Transitional cell carcinoma	III	T2N0M0
K07	F	54	Kidney	Clear cell carcinoma	null	T1N0M0
K08	F	21	Kidney	Clear cell carcinoma	null	T2N0M0
K09	M	69	Kidney	Papillary renal cell carcinoma	null	T1N0M0
K10	M	55	Kidney	Clear cell carcinoma	null	T2N0M0
K11	M	73	Kidney	Clear cell carcinoma	II	T2N0M0
K12	M	53	Kidney	Chromophobe renal cell carcinoma	null	T1N0M0
K13	F	67	Kidney	Transitional cell carcinoma	I~II	T1N0M0
K14	M	60	Kidney	Squamous cell carcinoma	I	T1N0M0
K15	F	74	Kidney	Clear cell carcinoma	null	T1N0M0
K16	M	66	Kidney	Clear cell carcinoma	null	T2N0M0
K17	M	68	Kidney	Clear cell carcinoma	null	T2N0M0
K18	M	50	Kidney	Clear cell carcinoma	I	T1N0M0
K19	M	50	Kidney	Clear cell carcinoma	null	T2N0M0
L01	M	40	Kidney	Clear cell carcinoma	null	T1N0M0
L02	F	52	Kidney	Chromophobe renal cell carcinoma	null	T2N0M0
L03	M	37	Kidney	Clear cell carcinoma	II	T1N0M0
L04	F	46	Kidney	Clear cell carcinoma	null	T1N0M0
L05	F	17	Kidney	Clear cell carcinoma	null	T1N1M0
L06	F	57	Kidney	Clear cell carcinoma	null	T1N0M0
L07	F	35	Kidney	Clear cell carcinoma	null	T1N1M0
L08	F	56	Kidney	Clear cell carcinoma	II	T1N0M0
L09	M	64	Kidney	Clear cell carcinoma	null	T1N0M0
L10	M	52	Kidney	Papillary renal cell carcinoma	null	T1N0M0
L11	M	68	Kidney	Clear cell carcinoma	III	T1N0M0
L12	F	59	Kidney	Clear cell carcinoma	null	T2N0M0
L13	M	62	Kidney	Clear cell carcinoma	null	T1N0M0
L14	M	40	Kidney	Clear cell carcinoma	null	T1N0M0
L15	M	31	Kidney	Chromophobe renal cell carcinoma	null	T1N0M0
L16	F	71	Kidney	Chromophobe renal cell carcinoma	null	T2N0M0
L17	M	56	Kidney	Clear cell carcinoma	null	T1N0M0
L18	M	65	Kidney	Transitional cell carcinoma	II	T1N0M0



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L19	F	42	Kidney	Chromophobe renal cell carcinoma	null	T2N0M0
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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.

Certified by: Fancai Li, M.D.

TNM Classification: Kidney carcinoma

T- Primary tumor

TX - Primary tumor cannot be assessed

TO - No evidence of primary tumor

T1 - Tumor 7.0 cm or less in greatest dimension, limited to the kidney

T2 - Tumor more than 7.0 cm, limited to the kidney

T3 - Tumor extends into major veins or invades adrenal gland or perinephric tissue but not beyond Gerota fascia

T4 - Tumor invades beyond Gerota fascia

N - Regional lymph nodes

NX - Regional lymph nodes cannot be assessed

NO - No regional lymph node metastasis

N1 - Metastasis in a single regional lymph node

N2 - Metastasis in more than one regional lymph nodes

M - Distant metastasis

MX - Distant metastasis cannot be assessed

MO - No distant metastasis

M1 - Distant metastasis

TNM classification of malignant tumours, Fifth Edition (1997)