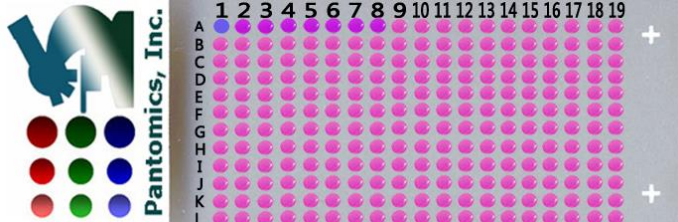


Cat No: OVC2281 - Ovary cancer tissue array

Lot#	Cores	Size	Cut	Format	QA/QC	Pantomics, Inc.	
OVC228101	228	1.1mm	4um	12X19	H&E, IHC anti-Cytokeratin		

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

Description: Ovary 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	F	21	Ovary	Normal	null	null
A02	F	46	Ovary	Normal	null	null
A03	F	34	Ovary	Normal	null	null
A04	F	65	Ovary	Normal	null	null
A05	F	55	Ovary	Normal	null	null
A06	F	51	Ovary	Normal	null	null
A07	F	46	Ovary	Normal	null	null
A08	F	52	Ovary	Normal	null	null
A09	F	35	Ovary	Metastatic cancers derived from colon carcinoma	null	null
A10	F	56	Ovary	Serous cystadenocarcinoma	II~III	T3N0M1
A11	F	52	Ovary	Serous cystadenocarcinoma	II~III	T1N0M0
A12	F	40	Ovary	Metastatic colon signet ring cell carcinoma	null	null
A13	F	51	Ovary	Endometrioid adenocarcinoma	III	T1N0M0
A14	F	20	Ovary	Serous cystadenocarcinoma	I~II	T1N0M0
A15	F	54	Ovary	Thecoma	null	null
A16	F	53	Ovary	Serous cystadenocarcinoma	III	T2N0M0
A17	F	48	Ovary	Endometrioid adenocarcinoma	III	T1N0M0
A18	F	44	Ovary	Endometrioid adenocarcinoma	II~III	T1N0M0
A19	F	51	Ovary	Serous cystadenocarcinoma	III	T3N1M1
B01	F	65	Ovary	Endometrioid adenocarcinoma	II~III	T1N0M0
B02	F	67	Ovary	Thecoma	null	null
B03	F	39	Ovary	Thecoma	null	null
B04	F	47	Ovary	Thecoma	null	null
B05	F	43	Ovary	Granulosa cell tumor	null	null
B06	F	31	Ovary	Teratoma	null	null
B07	F	43	Ovary	Serous cystadenocarcinoma	III	T1N0M0
B08	F	82	Ovary	Endometrioid adenocarcinoma	II	T1N0M0
B09	F	43	Ovary	Mucinous cystadenocarcinoma	III	T2N0M0
B10	F	63	Ovary	Endometrioid adenocarcinoma	III	T2N0M0
B11	F	17	Ovary	Dysgerminoma	null	T2N0M0
B12	F	54	Ovary	Endometrioid adenocarcinoma	III	T2N0M0
B13	F	52	Ovary	Granulosa cell tumor	null	null
B14	F	34	Ovary	Serous cystadenocarcinoma	I	T2N0M0
B15	F	55	Ovary	Thecoma	null	null
B16	F	58	Ovary	Endometrioid adenocarcinoma	III	T2N0M0
B17	F	25	Ovary	Endometrioid adenocarcinoma	II	T1N0M0
B18	F	48	Ovary	Metastatic pancreatic adenocarcinoma	null	null
B19	F	51	Ovary	Endometrioid adenocarcinoma	I	T1N0M0
C01	F	50	Ovary	Endometrioid adenocarcinoma	I	T3N1M1
C02	F	34	Ovary	Endodermal sinus tumor	null	T1N0M0



Advancing Biomedical Science Through Tissue Arrays

C03	F	34	Ovary	Endodermal sinus tumor	null	T3N0M1
C04	F	48	Ovary	Adenocarcinoma	III	T1N0M0
C05	F	22	Ovary	Mucinous cystadenocarcinoma	I	T1N0M0
C06	F	33	Ovary	Serous cystadenocarcinoma	I	T1N0M0
C07	F	57	Ovary	Adenocarcinoma	III	T2N0M0
C08	F	68	Ovary	Endometrioid adenocarcinoma	III	T2N0M0
C09	F	17	Ovary	Endometrioid adenocarcinoma	I	T1N0M0
C10	F	38	Ovary	Mucinous cystadenocarcinoma	I	T1N1M0
C11	F	31	Ovary	Malignant teratoma	null	null
C12	F	48	Ovary	Mucinous cystadenocarcinoma	III	T1N0M0
C13	F	18	Ovary	Serous cystadenocarcinoma	II	T1N0M0
C14	F	36	Ovary	Leiomyosarcoma?	null	T1N0M0
C15	F	42	Ovary	Serous cystadenocarcinoma	II~III	T3N0M1
C16	F	23	Ovary	Endodermal sinus tumor	null	null
C17	F	45	Ovary	Serous cystadenocarcinoma	III	T2N0M0
C18	F	18	Ovary	Mucinous cystadenocarcinoma	I	T1N0M0
C19	F	48	Ovary	Serous cystadenocarcinoma	II	T1N0M0
D01	F	49	Ovary	Endometrioid adenocarcinoma	III	T1N0M0
D02	F	51	Ovary	Endometrioid adenocarcinoma	III	T1N0M0
D03	F	65	Ovary	Adenocarcinoma	III	T3N0M0
D04	F	51	Ovary	Granulosa cell tumor	null	null
D05	F	40	Ovary	Leiomyosarcoma?	null	null
D06	F	55	Ovary	Granulosa cell tumor	null	null
D07	F	51	Ovary	Serous cystadenocarcinoma	III	T1N0M0
D08	F	71	Ovary	Endometrioid adenocarcinoma	III	T3N0M1
D09	F	24	Ovary	Dysgerminoma	null	null
D10	F	16	Ovary	Granulosa cell tumor	null	null
D11	F	58	Ovary	Endometrioid adenocarcinoma	III	T3N0M1
D12	F	17	Ovary	Dysgerminoma	null	null
D13	F	50	Ovary	Endometrioid adenocarcinoma	III	T1N0M0
D14	F	44	Ovary	Serous cystadenocarcinoma	III	T2N0M0
D15	F	39	Ovary	Endometrioid adenocarcinoma	III	T2N0M0
D16	F	35	Ovary	Granulosa cell tumor	null	null
D17	F	53	Ovary	Mucinous cystadenocarcinoma	II	T1N0M0
D18	F	43	Ovary	Endometrioid adenocarcinoma	I	T1N0M0
D19	F	74	Ovary	Serous cystadenocarcinoma	III	T1N0M0
E01	F	52	Ovary	Struma ovary	null	null
E02	F	52	Ovary	Endometrioid adenocarcinoma	II	T1N0M0
E03	F	56	Ovary	Serous cystadenocarcinoma	III	T3N0M1
E04	F	54	Ovary	Endometrioid adenocarcinoma	III	T3N0M1
E05	F	54	Ovary	Serous cystadenocarcinoma	III	T3N0M1
E06	F	52	Ovary	Clear cell carcinoma	II	T1N0M0
E07	F	25	Ovary	Granulosa cell tumor	null	null
E08	F	68	Ovary	Endometrioid adenocarcinoma	III	T1N0M0
E09	F	51	Ovary	Serous cystadenocarcinoma	II~III	T3N0M1
E10	F	55	Ovary	Malignant teratoma	null	T1N0M0
E11	F	60	Ovary	Serous cystadenocarcinoma	III	T2N0M0
E12	F	17	Ovary	Malignant teratoma	null	null
E13	F	61	Ovary	Serous cystadenocarcinoma	I~II	T3N0M1
E14	F	26	Ovary	Serous cystadenocarcinoma	I	T1N0M0
E15	F	24	Ovary	Malignant teratoma	null	null
E16	F	51	Ovary	Endometrioid adenocarcinoma	II	T1N0M0
E17	F	23	Ovary	Granulosa cell tumor	null	null
E18	F	50	Ovary	Endometrioid adenocarcinoma	II	T3N0M0
E19	F	39	Ovary	Mucinous cystadenoma	null	null
F01	F	37	Ovary	Dysgerminoma	null	null
F02	F	29	Ovary	Serous cystadenocarcinoma	I	T1N0M0
F03	F	32	Ovary	Clear cell carcinoma	null	T1N0M0
F04	F	54	Ovary	Serous cystadenocarcinoma	II	T1N0M0
F05	F	57	Ovary	Mucinous cystadenocarcinoma	I	T1N0M0
F06	F	22	Ovary	Mucinous cystadenoma	null	null

Advancing Biomedical Science Through Tissue Arrays

F07	F	55	Ovary	Granulosa cell tumor	null	null
F08	F	34	Ovary	Granulosa cell tumor	null	null
F09	F	56	Ovary	Serous cystadenocarcinoma	I~II	T3N0M1
F10	F	55	Ovary	Serous cystadenocarcinoma	II~III	T2N0M0
F11	F	55	Ovary	Serous cystadenocarcinoma	II	T3N0M1
F12	F	29	Ovary	Thecoma	null	null
F13	F	41	Ovary	Serous cystadenocarcinoma	I	T1N0M0
F14	F	45	Ovary	Metastatic gastric adenocarcinoma	null	null
F15	F	44	Ovary	Malignant thecoma	null	null
F16	F	72	Ovary	Serous cystadenocarcinoma	II	T1N0M0
F17	F	30	Ovary	Serous cystadenocarcinoma	I	T1N0M0
F18	F	50	Mesentery	Metastatic ovary adenocarcinoma	null	null
F19	F	47	Ovary	Undifferentiated carcinoma	null	T3N0M0
G01	F	31	Ovary	Endodermal sinus tumor	null	null
G02	F	20	Ovary	Endodermal sinus tumor	null	null
G03	F	51	Ovary	Embryonal carcinoma	null	null
G04	F	47	Ovary	Metastatic adenocarcinoma	null	null
G05	F	41	Ovary	Mucinous cystadenoma	null	null
G06	F	58	Ovary	Undifferentiated carcinoma	null	null
G07	F	15	Ovary	Malignant teratoma	null	null
G08	F	54	Ovary	Undifferentiated carcinoma	null	T3N0M0
G09	F	51	Ovary	Mucinous cystadenocarcinoma	III	T2N0M0
G10	F	59	Ovary	Thecoma	null	null
G11	F	50	Ovary	Endometrioid adenocarcinoma	II	T2N0M0
G12	F	45	Ovary	Metastatic adenocarcinoma	null	null
G13	F	23	Ovary	Endodermal sinus tumor	null	null
G14	F	54	Ovary	Granulosa cell tumor	null	null
G15	F	48	Ovary	Undifferentiated carcinoma	null	T2N0M0
G16	F	54	Ovary	Mucinous cystadenocarcinoma	I~II	T1N0M0
G17	F	52	Ovary	Borderline mucinous cystadenoma	null	null
G18	F	58	Ovary	Neurofibroma	null	null
G19	F	44	Ovary	Endometrioid adenocarcinoma	I	T2N0M0
H01	F	44	Ovary	Endometrioid adenocarcinoma	II	T2N0M0
H02	F	44	Ovary	Granulosa cell tumor	null	null
H03	F	52	Ovary	Thecoma	null	null
H04	F	38	Ovary	Granulosa cell tumor	null	null
H05	F	34	Ovary	Serous cystadenocarcinoma	null	T2N0M0
H06	F	20	Ovary	Mucinous cystadenocarcinoma	I	T1N0M0
H07	F	27	Ovary	Borderline mucinous cystadenoma	null	T1N0M0
H08	F	58	Ovary	Serous cystadenocarcinoma	I~II	T2N0M0
H09	F	57	Ovary	Serous cystadenocarcinoma	II	T2N0M0
H10	F	48	Ovary	Adenocarcinoma	III	T2N0M0
H11	F	50	Ovary	Thecoma	null	null
H12	F	28	Ovary	Metastatic adenocarcinoma	null	null
H13	F	51	Ovary	Serous cystadenocarcinoma	II	T2N0M0
H14	F	62	Ovary	Metastatic adenocarcinoma	null	null
H15	F	42	Ovary	Fibroma	null	null
H16	F	57	Ovary	Mucinous cystadenocarcinoma	I~II	T1N0M0
H17	F	31	Ovary	Serous cystadenocarcinoma	I	T1N0M0
H18	F	42	Ovary	Mucinous cystadenocarcinoma	I~II	T1N0M0
H19	F	54	Ovary	Mucinous cystadenoma	null	null
I01	F	39	Ovary	Thecoma	null	null
I02	F	54	Ovary	Borderline serous cystadenoma	null	null
I03	F	14	Ovary	Dysgerminoma	null	T1N0M0
I04	F	18	Ovary	Malignant teratoma	null	T1N0M0
I05	F	62	Ovary	Mucinous cystadenoma	null	null
I06	F	71	Ovary	Serous cystadenocarcinoma	III	T3N0M1
I07	F	76	Ovary	Mucinous cystadenocarcinoma	I	T1N0M0
I08	F	41	Ovary	Endometrioid adenocarcinoma	III	T1N0M0
I09	F	60	Ovary	Metastatic carcinoma	null	null
I10	F	50	Ovary	Serous cystadenocarcinoma	I	T1N0M0

Advancing Biomedical Science Through Tissue Arrays

I11	F	35	Ovary	Malignant teratoma	null	null
I12	F	50	Ovary	Serous cystadenocarcinoma	III	T3N0M1
I13	F	26	Ovary	Serous cystadenocarcinoma	I	T1N0M0
I14	F	53	Ovary	Serous cystadenocarcinoma	III	T1N0M0
I15	F	49	Ovary	Brenner tumor	null	null
I16	F	52	Ovary	Serous cystadenocarcinoma	III	T1N0M0
I17	F	45	Ovary	Mucinous cystadenocarcinoma	I	T3N0M1
I18	F	45	Ovary	Mucinous cystadenocarcinoma	I	T3N0M1
I19	F	7	Ovary	Dysgerminoma	null	null
J01	F	44	Ovary	Mucinous cystadenocarcinoma	I~II	T1N0M0
J02	F	29	Ovary	Serous cystadenocarcinoma	I	T1N0M0
J03	F	59	Ovary	Endometrioid adenocarcinoma	III	T1N0M0
J04	F	22	Ovary	Metastatic adenocarcinoma	null	null
J05	F	37	Ovary	Adenocarcinoma	III	T3N0M0
J06	F	49	Ovary	Dysgerminoma	null	null
J07	F	53	Ovary	Endometrioid adenocarcinoma	III	T1N0M0
J08	F	58	Ovary	Serous cystadenocarcinoma	III	T1N0M0
J09	F	46	Ovary	Mucinous cystadenocarcinoma	II	T1N0M0
J10	F	55	Ovary	Granulosa cell tumor	null	T1N0M0
J11	F	50	Ovary	Serous cystadenocarcinoma	III	T1N0M0
J12	F	55	Ovary	Adenocarcinoma	III	T1N0M0
J13	F	56	Ovary	Serous cystadenocarcinoma	III	T1N0M0
J14	F	48	Ovary	Clear cell carcinoma	null	T1N0M0
J15	F	48	Ovary	Malignant Mullerian tumor	null	T3N1M0
J16	F	43	Ovary	Endometrioid adenocarcinoma	II	T3N0M0
J17	F	57	Ovary	Mucinous cystadenoma	null	null
J18	F	40	Ovary	Dysgerminoma	null	null
J19	F	50	Ovary	Serous cystadenocarcinoma	II	T3N0M1
K01	F	27	Ovary	Mucinous cystadenoma	null	null
K02	F	51	Ovary	Serous cystadenocarcinoma	II	T1N0M0
K03	F	38	Ovary	Malignant thecoma	null	null
K04	F	45	Ovary	Serous cystadenoma	null	null
K05	F	65	Ovary	Adenocarcinoma	III	T3N1M0
K06	F	59	Ovary	Serous cystadenocarcinoma	II	T3N0M1
K07	F	46	Ovary	Adenocarcinoma	III	T1N0M0
K08	F	22	Ovary	Dysgerminoma	null	null
K09	F	71	Ovary	Serous cystadenocarcinoma	III	T1N0M0
K10	F	60	Ovary	Endometrioid adenocarcinoma	III	T3N0M0
K11	F	65	Ovary	Serous cystadenocarcinoma	I~II	T2N0M0
K12	F	43	Ovary	Malignant mesodermal tumor	null	null
K13	F	55	Ovary	Mucinous cystadenocarcinoma	II	T1N0M0
K14	F	57	Ovary	Endometrioid adenocarcinoma	III	T3N0M1
K15	F	42	Ovary	Metastatic adenocarcinoma	null	null
K16	F	30	Ovary	Metastatic adenocarcinoma	null	null
K17	F	59	Ovary	Serous cystadenocarcinoma	III	T3N0M1
K18	F	66	Ovary	Serous cystadenocarcinoma	II~III	T1N0M0
K19	F	46	Ovary	Serous cystadenocarcinoma	III	T2N0M0
L01	F	56	Ovary	Serous cystadenocarcinoma	III	T1N0M0
L02	F	35	Ovary	Transitional cell carcinoma	II~III	T1N0M0
L03	F	40	Ovary	Serous cystadenocarcinoma	III	T3N1M1
L04	F	39	Ovary	Mixed cell carcinoma	null	null
L05	F	21	Ovary	Endodermal sinus tumor	null	null
L06	F	54	Ovary	Endometrioid adenocarcinoma	III	T1N0M0
L07	F	53	Ovary	Mucinous cystadenocarcinoma	II	T3N0M1
L08	F	61	Ovary	Transitional cell carcinoma	II	T2N0M0
L09	F	69	Ovary	Endometrioid adenocarcinoma	null	T1N0M0
L10	F	29	Ovary	Teratoma	null	null
L11	F	53	Ovary	Endometrioid adenocarcinoma	II	T1N0M0
L12	F	25	Ovary	Lymphoma, non-Hodgkin lymphoma	null	null
L13	F	62	Ovary	Adenocarcinoma	III	null
L14	F	30	Ovary	Mucinous cystadenoma	null	null

Advancing Biomedical Science Through Tissue Arrays

L15	F	28	Ovary	Borderline serous cystadenoma	null	null
L16	F	13	Ovary	Malignant mesodermal tumor	null	null
L17	F	65	Ovary	Adenocarcinoma	III	T3N0M0
L18	F	36	Ovary	Signet ring cell carcinoma	null	T2N0M0
L19	F	75	Ovary	Serous cystadenocarcinoma	II	T2N0M0

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: Ovary carcinoma

T- Primary tumor

TX - Primary tumor cannot be assessed

TO - No evidence of primary tumor

T1 - Tumor limited to the ovaries

T1a - Tumor limited to one ovary; capsule intact, no tumor invasion on ovarian surface; no malignant cells in ascites or peritoneal washings

T1b - Tumor limited to both ovaries; capsule intact, no tumor invasion on ovarian surface; no malignant cells in ascites or peritoneal washings

T1c - Tumor limited to one or both ovaries with any or the following features; capsule ruptured, tumor on ovarian surface, malignant cells in ascites or peritoneal washing

T2 - Tumor involves one or both ovaries with pelvic extension

T2a - Extension and/or implants on uterus and/or tube(s); no malignant cells in ascites or peritoneal washings

T2b - Extension to other pelvic tissue; no malignant cells in ascites or peritoneal washings

T2c - Pelvic extension (T2a or T2b) with malignant cells in ascites or peritoneal washings

T3 and/or N1 - Tumor involves both ovaries with microscopically confirmed peritoneal metastasis outside the pelvis and/or regional lymph node metastasis

T3a - Microscopic peritoneal metastasis beyond pelvis

T3b - Macroscopic peritoneal metastasis beyond pelvis 2 cm or less in greatest dimension

T3c and/or N1 - Peritoneal metastasis beyond pelvis more than 2 cm in greatest dimension and/or regional lymph node metastasis

N - Regional lymph nodes

NX - Regional lymph nodes cannot be assessed

NO - No regional lymph node metastasis

N1 - Regional lymph node metastasis

M - Distant metastasis

MX - Distant metastasis cannot be assessed

MO - No distant metastasis

M1 - Distant metastasis (exclude peritoneal metastasis)



Comparison between TNM vs. FIGO

TNM category	FIGO stage	TNM category	FIGO stage
T1	I	T3 and/or N1	III
T1a	IA	T3a	IIIA
T1b	IB	T3b	IIIB
T1c	IC	T3c and/or N1	IIIC
T2	II	M1	IV
T2a	IIA		
T2b	IIB		
T2c	IIC		

TNM classification of malignant tumours, Fifth Edition (1997)