
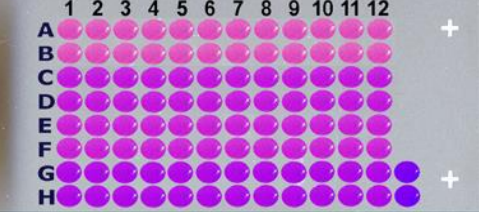


Cat No: BRM961– Breast primary paired with metastatic cancer tissue array

Lot#	Cores	Size	Cut	Format	QA/QC		
BRM96101	96	1.5mm	4um	8X12	H&E, IHC anti-Cytokeratin		

Recommended applications: For Research use only. RNA or protein breast primary and metastatic cancer tissue profiling using IHC or ISH; Antibody characterization.

Description: Breast cancer tissue array containing 12 cases of paired normal and primary, and 36 cases of primary and metastatic tumors (in lymph nodes and other organs) from the same patients in duplicates, 96 cores, with AR, ER, PR, HER2, P53, EGFR, Ki67 IHC 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	29	Breast	Invasive ductal carcinoma	III	T3N0M0
A02	F	35	Breast	Invasive ductal carcinoma	II	T2N0M0
A03	F	80	Breast	Invasive ductal carcinoma	I~II	T2N0M0
A04	F	45	Breast	Invasive ductal carcinoma	II	T2N0M0
A05	F	36	Breast	Invasive ductal carcinoma	III	T2N1M0
A06	F	35	Breast	Invasive ductal carcinoma	II	T2N0M0
A07	F	57	Breast	Invasive ductal carcinoma	II	T2N0M0
A08	F	52	Breast	Invasive ductal carcinoma	II	T2N0M0
A09	F	38	Breast	Invasive ductal carcinoma	II	T2N0M0
A10	F	51	Breast	Invasive ductal carcinoma	II	T2N0M0
A11	F	43	Breast	Invasive ductal carcinoma	II	T2N0M0
A12	F	38	Breast	Invasive lobular carcinoma	II	T2N0M0
B01	F	29	Breast	Uninvolved breast tissue of A1	null	null
B02	F	35	Breast	Uninvolved breast tissue of A2, hyperplasia	null	null
B03	F	80	Breast	Uninvolved breast tissue of A3, no gland	null	null
B04	F	45	Breast	Uninvolved breast tissue of A4	null	null
B05	F	36	Breast	Uninvolved breast tissue of A5	null	null
B06	F	35	Breast	Uninvolved breast tissue of A6	null	null
B07	F	57	Breast	Uninvolved breast tissue of A7, no gland	null	null
B08	F	52	Breast	Uninvolved breast tissue of A8, no gland	null	null
B09	F	38	Breast	Uninvolved breast tissue of A9, no gland	null	null
B10	F	51	Breast	Uninvolved breast tissue of A10	null	null
B11	F	43	Breast	Uninvolved breast tissue of A11	null	null
B12	F	38	Breast	Uninvolved breast tissue of A12	null	null
C01	F	63	Breast	Invasive ductal carcinoma	II~III	T4N2M0
C02	F	60	Breast	Invasive ductal carcinoma	II~III	T4N1M0
C03	F	47	Breast	Invasive ductal carcinoma	II	T3N1M0
C04	F	50	Breast	Invasive ductal carcinoma	II	T3N1M0
C05	F	52	Breast	Invasive ductal carcinoma	II	T3N1M0
C06	F	54	Breast	Invasive ductal carcinoma	II~III	T3N3M0
C07	F	43	Breast	Invasive lobular carcinoma	I~II	T3N1M0
C08	F	54	Breast	Invasive lobular carcinoma	I	T3N1M0

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C09	F	45	Breast	Invasive ductal carcinoma	II	T3N1M0
C10	F	68	Breast	Invasive ductal carcinoma	II~III	T3N1M0
C11	F	46	Breast	Invasive ductal carcinoma	I~II	T2N1M0
C12	F	39	Breast	Invasive ductal carcinoma	I~II	T2N1M0
D01	F	63	Lymph node	Lymph node metastasis of C01	null	null
D02	F	60	Lymph node	Lymph node metastasis of C02	null	null
D03	F	47	Lymph node	Lymph node metastasis of C03	null	null
D04	F	50	Lymph node	Lymph node metastasis of C04	null	null
D05	F	52	Lymph node	Lymph node metastasis of C05	null	null
D06	F	54	Lymph node	Lymph node metastasis of C06	null	null
D07	F	43	Lymph node	Lymph node metastasis of C07	null	null
D08	F	54	Lymph node	Lymph node metastasis of C08	null	null
D09	F	45	Lymph node	Lymph node metastasis of C09	null	null
D10	F	68	Lymph node	Lymph node metastasis of C10	null	null
D11	F	46	Lymph node	Lymph node metastasis of C11	null	null
D12	F	39	Lymph node	Lymph node metastasis of C12	null	null
E01	F	35	Breast	Invasive lobular carcinoma	I	T2N1M0
E02	F	40	Breast	Invasive ductal carcinoma	II	T2N1M0
E03	F	35	Breast	Invasive ductal carcinoma	I~II	T3N1M0
E04	F	39	Breast	Invasive ductal carcinoma	I	T4N1M0
E05	F	50	Breast	Invasive ductal carcinoma	III	T2N1M0
E06	F	44	Breast	Invasive ductal carcinoma	II	T2N1M0
E07	F	55	Breast	Invasive ductal carcinoma	II	T3N3M0
E08	F	30	Breast	Invasive lobular carcinoma	II	T2N1M0
E09	F	39	Breast	Invasive lobular carcinoma	I~II	T2N1M0
E10	F	41	Breast	Invasive ductal carcinoma	II	T2N1M0
E11	F	47	Breast	Invasive lobular carcinoma	I	T4N1M0
E12	F	50	Breast	Invasive ductal carcinoma	II	T3N1M0
F01	F	35	Lymph node	Lymph node metastasis of E01	null	null
F02	F	40	Lymph node	Lymph node metastasis of E02	null	null
F03	F	35	Lymph node	Lymph node metastasis of E03	null	null
F04	F	39	Lymph node	Lymph node metastasis of E04	null	null
F05	F	50	Lymph node	Lymph node metastasis of E05	null	null
F06	F	44	Lymph node	Lymph node metastasis of E06	null	null
F07	F	55	Lymph node	Lymph node metastasis of E07	null	null
F08	F	30	Lymph node	Lymph node metastasis of E08	null	null
F09	F	39	Lymph node	Lymph node metastasis of E09	null	null
F10	F	41	Lymph node	Lymph node metastasis of E10	null	null
F11	F	47	Lymph node	Lymph node metastasis of E11	null	null
F12	F	50	Lymph node	Lymph node metastasis of E12	null	null
G01	F	38	Breast	Invasive ductal carcinoma	II	T2N1M0
G02	F	42	Breast	Invasive ductal carcinoma	II	T2N1M0
G03	F	42	Breast	Invasive ductal carcinoma	II	T2N1M0
G04	F	69	Breast	Invasive ductal carcinoma	II	T2N1M0
G05	F	45	Breast	Invasive ductal carcinoma	II	T2N1M0
G06	F	54	Breast	Invasive ductal carcinoma	II	T2N1M0
G07	F	40	Breast	Invasive ductal carcinoma	III	T2N1M0
G08	F	68	Breast	Invasive ductal carcinoma	II	T2N1M0
G09	F	37	Breast	Invasive ductal carcinoma	II	T2N1M0
G10	F	50	Breast	Invasive ductal carcinoma	I~II	T2N0M0
G11	F	42	Breast	Invasive ductal carcinoma	II	T2N1M0
G12	F	54	Breast	Invasive ductal carcinoma	II	T2N1M0
H01	F	38	Lymph node	Lymph node metastasis of G01	null	null
H02	F	42	Lymph node	Lymph node metastasis of G02	null	null
H03	F	42	Lymph node	Lymph node metastasis of G03	null	null
H04	F	69	Lymph node	Lymph node metastasis of G04	null	null

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H05	F	45	Lymph node	Lymph node metastasis of G05	null	null
H06	F	54	Lymph node	Lymph node metastasis of G06	null	null
H07	F	40	Lymph node	Lymph node metastasis of G07	null	null
H08	F	68	Lymph node	Lymph node metastasis of G08	null	null
H09	F	37	Lymph node	Lymph node metastasis of G09	null	null
H10	F	50	Lymph node	Lymph node metastasis of G10	null	null
H11	F	42	Lymph node	Lymph node metastasis of G11	null	null
H12	F	54	Lymph node	Lymph node metastasis of G12	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. For availability of complimentary IHC data, please contact us at info@pantomics.com.

Certified by: Fancai Li, M.D.

TNM Classification: Breast carcinoma

T- Primary tumor

TX - Primary tumor cannot be assessed

TO - No evidence of primary tumor

Tis - Carcinoma in situ, intraductal carcinoma or lobular carcinoma in situ, or Paget's disease of the nipple with no tumor

T1 - Tumor 2 cm or less in greatest dimension

T2 - Tumor more than 2 cm but not more than 5 cm in greatest dimension

T3 - Tumor more than 5 cm in greatest dimension

T4 - Tumor of any size with direct extension to chest wall or skin

N - Regional lymph nodes

NX - Regional lymph nodes cannot be assessed

NO - No regional lymph node metastasis

N1 - Metastasis to movable ipsilateral lymph node(s)

N2 - Metastasis to ipsilateral lymph nodes(s) fixed to one another or to other structure

N3 - Metastasis to ipsilateral internal mammary lymph node(s)

M - Distant metastasis

MX - Distant metastasis cannot be assessed

MO - No distant metastasis

M1 - Distant metastasis

TNM classification of malignant tumours, Fifth Edition (1997)