



Cat No: **BRC711** – Breast cancer tissue array

Lot#	Cores	Size	Cut	Format	QA/QC
BRC71101	71	1.1mm	4um	8X9	H&E, IHC anti-Cytokeratin



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

**Description:** Breast cancer tissue array, 71 cores including 71 cases of breast cancers (some cases may run out tumor cells due to small core size). 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 all have a guaranteed six months' shelf-life at 4C from the date of shipment. Each slide has >95% tissue core retention.

Position	Age	Sex	Site	Histology	Grade	Stage
A1	37	F	Breast	Invasive ductal carcinoma, few tumor cells	II~III	T3N1M0
A2	54	F	Breast	Invasive ductal carcinoma	II	T2N0M0
A3	43	F	Breast	Invasive ductal carcinoma	III	T3N1M0
A4	38	F	Breast	Invasive ductal carcinoma	II	T1N0M0
A5	58	F	Breast	Fat tissue		
A6	54	F	Breast	Invasive ductal carcinoma	III	T2N1M0
A7	58	F	Breast	Invasive ductal carcinoma	II~III	T3N1M0
A8	45	F	Breast	Invasive ductal carcinoma	II~III	T2N0M0
A9	40	F	Breast	Invasive ductal carcinoma	III	T1N0M0
B1	40	F	Breast	Invasive ductal carcinoma	II	T2N1M0
B2	29	F	Breast	Invasive ductal carcinoma	III	T3N1M0
B3	46	F	Breast	Invasive ductal carcinoma	II~III	T2N1M0
B4	39	F	Breast	Invasive ductal carcinoma	III	T2N1M0
B5	40	F	Breast	Invasive ductal carcinoma	III	T2N0M0
B6	44	F	Breast	Invasive ductal carcinoma	II~III	T2N0M0
B7	46	F	Breast	Invasive ductal carcinoma	II~III	T2N0M0
B8	35	F	Breast	Invasive ductal carcinoma	II~III	T4N2M1
B9	55	F	Breast	Invasive ductal carcinoma	III	T2N0M0
C1	38	F	Breast	Invasive ductal carcinoma	II	T3N1M0
C2	35	F	Breast	Invasive ductal carcinoma	II~III	T2N0M0
C3	40	F	Breast	Invasive ductal carcinoma	II~III	T2N0M0
C4	50	F	Breast	Mucinous carcinoma	II~III	T2N0M0
C5	40	F	Breast	Invasive ductal carcinoma	III	T2N0M0
C6	53	F	Breast	Ductal carcinoma	I	T3N0M0
C7	49	F	Breast	Invasive ductal carcinoma	III	T3N0M0
C8	45	F	Breast	Invasive ductal carcinoma	II	T2N0M0
C9	62	F	Breast	Invasive ductal carcinoma	III	T1N0M0
D1	56	F	Breast	Invasive ductal carcinoma	II~III	T1N0M0
D2	33	F	Breast	Adenosquamous carcinoma	II~III	T2N0M0
D3	37	F	Breast	Invasive ductal carcinoma, few tumor cells	II~III	T2N0M0



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D4	47	F	Breast	Invasive ductal carcinoma	III	T1N0M0
D5	50	F	Breast	Invasive ductal carcinoma	II~III	T1N0M0
D6	64	F	Breast	Invasive ductal carcinoma	II~III	T3N1M0
D7	44	F	Breast	Squamous cell carcinoma	II~III	T2N0M0
D8	55	F	Breast	Invasive ductal carcinoma	II~III	T2N0M0
D9	47	F	Breast	Invasive ductal carcinoma	II~III	T2N0M0
E1	50	F	Breast	Invasive ductal carcinoma	II~III	T2N0M0
E2	51	F	Breast	Invasive ductal carcinoma, <b>few tumor cells</b>	II	T2N0M0
E3	57	F	Breast	Invasive ductal carcinoma	III	T2N0M0
E4	36	F	Breast	Invasive ductal carcinoma	II~III	T2N0M0
E5	36	F	Breast	Invasive ductal carcinoma	II~III	T2N0M0
E6	43	F	Breast	Invasive ductal carcinoma	II~III	T2N0M0
E7	50	F	Breast	Invasive papillary carcinoma	II~III	T1N0M0
E8	47	F	Breast	Invasive ductal carcinoma	II~III	T3N1M0
E9	48	F	Breast	Invasive ductal carcinoma	II	T2N0M0
F1	66	F	Breast	Invasive ductal carcinoma	II~III	T2N0M0
F2	50	F	Breast	Invasive ductal carcinoma	II~III	T2N0M0
F3	66	F	Breast	Invasive ductal carcinoma	III	T2N0M0
F4	49	F	Breast	Invasive ductal carcinoma	II	T2N0M0
F5	61	F	Breast	Ductal papillary carcinoma	I~II	TisN0M0
F6	33	F	Breast	Invasive ductal carcinoma	III	T2N0M0
F7	78	F	Breast	Invasive ductal carcinoma	II~III	T3N0M0
F8	40	F	Breast	Invasive lobular carcinoma	II~III	T2N0M0
F9	68	F	Breast	Invasive ductal carcinoma	II~III	T2N0M0
G1	82	F	Breast	Invasive ductal carcinoma, <b>few tumor cells</b>	II~III	T2N0M0
G2	75	F	Breast	Invasive ductal carcinoma	II~III	T2N0M0
G3	48	F	Breast	Invasive ductal carcinoma	II~III	T4N1M0
G4	77	F	Breast	Invasive ductal carcinoma	III	T2N0M0
G5	46	F	Breast	Invasive ductal carcinoma	II~III	T2N0M0
G6	53	F	Breast	<b>Normal breast</b>		
G7	43	F	Breast	Ductal carcinoma in situ	I~II	T2N0M0
G8	61	F	Breast	<b>Normal breast</b>		
G9				Orientation Gap		
H1	40	F	Breast	Invasive ductal carcinoma	II~III	T2N1M0
H2	79	F	Breast	Invasive ductal carcinoma	III	T3N2M1
H3	55	F	Breast	Invasive ductal carcinoma	III	T3N2Mx
H4	51	F	Breast	Invasive lobular carcinoma	II~III	T2N0M0
H5	54	F	Breast	Invasive ductal carcinoma	III	T2N0M0
H6	43	F	Breast	Invasive ductal carcinoma	II~III	T4N0M0
H7	57	F	Breast	Invasive ductal carcinoma	II~III	T2N0M0
H8	47	F	Breast	Invasive ductal carcinoma	I~II	T2N0M0
H9	32	F	Breast	Invasive ductal carcinoma	I~II	T2N0M0

Notes: Bake at 60C for 30 minutes before use.



**Certified by:** Langxing Pan, 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)