



Cat No: **BRC481-5 – Breast cancer/uninvolved paired tissue array**

Lot#	Cores	Size	Cut	Format	QA/QC	Pantomics, Inc.	
BRC48101	48	2.0mm	4um	6X8	H&E, IHC anti-Cytokeratin		

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

**Description:** 16 cases of breast cancer (purple), each in duplicates, with corresponding uninvolved tissue (pink) from the same patient as control.

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.** Because of their tiny sizes, normal breast glands may run out from some of the paired uninvolved tissues.

Array Position	Sex	Age	Anatomic Site	Pathology	Grade	Stage
A01	F	28	Breast	Invasive ductal carcinoma	I	T1N0M0
A02	F	56	Breast	Invasive ductal carcinoma	I	T1N0M0
A03	F	38	Breast	Invasive ductal carcinoma	III	T4N0M0
A04	F	74	Breast	Invasive ductal carcinoma	II~III	T2N0M0
A05	F	33	Breast	Invasive ductal carcinoma	III	T2N0M0
A06	F	61	Breast	Invasive ductal carcinoma	III	T3N0M0
A07	F	50	Breast	Invasive ductal carcinoma	II~III	T2N1M0
A08	F	40	Breast	Invasive ductal carcinoma	III	T2N0M0
B01	F	28	Breast	Invasive ductal carcinoma	I	T1N0M0
B02	F	56	Breast	Invasive ductal carcinoma	I	T1N0M0
B03	F	38	Breast	Invasive ductal carcinoma	III	T4N0M0
B04	F	74	Breast	Invasive ductal carcinoma	II~III	T2N0M0
B05	F	33	Breast	Invasive ductal carcinoma	III	T2N0M0
B06	F	61	Breast	Invasive ductal carcinoma	III	T3N0M0
B07	F	50	Breast	Invasive ductal carcinoma	II~III	T2N1M0
B08	F	40	Breast	Invasive ductal carcinoma	III	T2N0M0
C01	F	28	Breast	Uninvolved breast tissue of A1, B1	null	null
C02	F	56	Breast	Uninvolved breast tissue of A2, B2	null	null
C03	F	38	Breast	Uninvolved breast tissue of A3, B3	null	null
C04	F	74	Breast	Uninvolved breast tissue of A4, B4	null	null
C05	F	33	Breast	Uninvolved breast tissue of A5, B5	null	null
C06	F	61	Breast	Uninvolved breast tissue of A6, B6	null	null
C07	F	50	Breast	Uninvolved breast tissue of A7, B7	null	null
C08	F	40	Breast	Uninvolved breast tissue of A8, B8	null	null
D01	F	35	Breast	Invasive ductal carcinoma	II	T2N0M0
D02	F	53	Breast	Invasive ductal carcinoma	II~III	T2N1M0
D03	F	47	Breast	Invasive ductal carcinoma	II~III	T2N0M0
D04	F	36	Breast	Invasive ductal carcinoma	II~III	T2N0M0
D05	F	77	Breast	Invasive ductal carcinoma	III	T2N0M0
D06	F	43	Breast	Invasive lobular carcinoma	I	T4N1M0
D07	F	47	Breast	Invasive ductal carcinoma	I~II	T2N0M0
D08	F	66	Breast	Invasive ductal carcinoma, tubular type	I~II	T2N0M0
E01	F	35	Breast	Invasive ductal carcinoma	II	T2N0M0
E02	F	53	Breast	Invasive ductal carcinoma	II~III	T2N1M0
E03	F	47	Breast	Invasive ductal carcinoma	II~III	T2N0M0
E04	F	36	Breast	Invasive ductal carcinoma	II~III	T2N0M0
E05	F	77	Breast	Invasive ductal carcinoma	III	T2N0M0
E06	F	43	Breast	Invasive lobular carcinoma	I	T4N1M0

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E07	F	47	Breast	Invasive ductal carcinoma	I~II	T2N0M0
E08	F	66	Breast	Invasive ductal carcinoma, tubular type	I~II	T2N0M0
F01	F	35	Breast	Uninvolved breast tissue of D1, E1	null	null
F02	F	53	Breast	Uninvolved breast tissue of D2, E2	null	null
F03	F	47	Breast	Uninvolved breast tissue of D3, E3	null	null
F04	F	36	Breast	Uninvolved breast tissue of D4, E4	null	null
F05	F	77	Breast	Uninvolved breast tissue of D5, E5	null	null
F06	F	43	Breast	Uninvolved breast tissue of D6, E6	null	null
F07	F	47	Breast	Uninvolved breast tissue of D7, E7	null	null
F08	F	66	Breast	Uninvolved breast 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. For availability of complimentary IHC data, please contact us at [info@pantomics.com](mailto: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)