



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

Lot#	Cores	Size	Cut	Format	QA/QC	
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 all have a guaranteed six months' shelf-life at 4C from the date of shipment. Each slide has >95% tissue core retention.

Array position	Sex	Age	Pathology	Stage (TNM)	Grade	AR	ER	PR	HER2
A1,B1	F	28	Invasive ductual carcinoma	T1N0M0	I	-	-	-	+++
C1	F	28	Uninvolved breast tissue of A1,B1	-	-	-	-	-	-
A2,B2	F	56	Invasive ductual carcinoma	T1N0M0	I	+, 2%	-	-	-
C2	F	56	Uninvolved breast tissue of A2,B2	-	-	-	++~+++, 10%	+++ , 10%	-
A3,B3	F	38	Invasive poorly differentiated carcinoma	T4N0M0	III	-	-	-	-
C3	F	38	Uninvolved breast tissue of A3,B3	-	-	-	++, 1%	++, 1%	-
A4,B4	F	74	Invasive ductual carcinoma	T2N0M0	II-III	+, 5%	+++ , 90%	++~+++, 20%	-
C4	F	74	Uninvolved breast tissue of A4,B4	-	-	+, 2%	+++ , 20%	-	-
A5,B5	F	48	Invasive ductual carcinoma	T2N0M0	II	No tumor cell	No tumor cell	-	-
C5	F	48	Uninvolved breast tissue of A5,B5	-	-	++, 5%	+++ , 50%	+++ , 15%	-
A6,B6	F	53	Invasive ductual carcinoma	T2N0M0	III	-	+++ , 90%	+++ , 60%	++~+++
C6	F	53	Uninvolved breast tissue of A6,B6	-	-	-	+++ , 50%	-	-
A7,B7	F	50	Invasive ductual carcinoma	T2N0M0	II-III	+, 20%	++~+++, 80%	+++ , 90%	+
C7	F	50	Uninvolved breast tissue of A7,B7	-	-	++, 10%	++~+++, 20%	+++ , 50%	-
A8,B8	F	40	Invasive poorly differentiated carcinoma	T2N0M0	III	-	-	-	++~+++
C8	F	40	Uninvolved breast tissue of A8,B8	-	-	-	++, 15%	+++ , 50%	-
D1,E1	F	35	Invasive ductual carcinoma	T2N0M0	II	++, 5%	++, 10%	++, 50%	+
F1	F	35	Uninvolved breast tissue of D1,E1	-	-	-	-	+++ , 2%	+
D2,E2	F	53	Invasive ductual carcinoma	T2N1M0	II-III	++, 50%	-	-	+++
F2	F	53	Uninvolved breast tissue of D2,E2	-	-	++, 20%	+++ , 10%	-	+-
D3,E3	F	47	Invasive ductual carcinoma	T2N0M0	II-III	-	-	-	+++
F3	F	47	Uninvolved breast tissue of D3,E3	-	-	No gland cell	++, 5%	++, 1%	-
D4,E4	F	36	Invasive ductual carcinoma	T2N0M0	II-III	++, 10%	++, 20%	++~+++, 20%	+++
F4	F	36	Uninvolved breast tissue of D4,E4	-	-	++, 10%	++, 5%	+++ , 15%	+
D5,E5	F	77	Invasive ductual carcinoma	T2N0M0	III	-	-	-	-
F5	F	77	Uninvolved breast tissue of D5,E5	-	-	No gland cell	No gland cell	No gland cell	No gland cell
D6,E6	F	43	Invasive lobular carcinoma	T2N0M0	II-III	-	-	+~+++ , 30%	+
F6	F	43	Uninvolved breast tissue of D6,E6	-	-	+, 5%	++, 5%	+++ , 5%	-
D7,E7	F	47	Invasive lobular carcinoma	T2N0M0	I-II	-	++, 50%	-	++~+++
F7	F	47	Uninvolved breast tissue of D7,E7	-	-	+, 2%	++, 5%	+++ , 2%	+-



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D8,E8	F	66	Invasive lobular carcinoma	T2N0M0	II-III	-	+++ , 90%	-	+
F8	F	66	Uninvolved breast tissue of D8,E8	-		-	++ , 50%	++~+++ , 10%	-

Notes: Bake at 60C for 30 minutes before use. If antigen retrieving is needed, it is always a good idea to start with a protocol with weak to mild strength.

Staining Scoring: "-" – no staining; "+-" – borderline staining; "+" – weak staining; "++" – moderate staining; "+++" – strong staining; "%" – percentage of positive cells.

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)