

Advancing Biomedical Science Through Tissue Amage

# Cat No: BRC15013 - Breast cancer tissue array

Lot#	Cores	Size	Cut	Format	QA/QC	J	1	2	3 4	5 (	67	8	9 10	) 11 -	12 13	11
BRC1501301	150	1.1mm	4um	10X15	H&E, IHC anti- Cytokeratin	Pantomics, In	A B C D E F G H I J									

**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, set 13, non-overlapping with BRC1501 to BRC15012, 150 cores from normal/benign (5 cases) and cancer (70 cases) tissues in duplicates 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	33	Breast	Hyperplasia		
A02	F	35	Breast	Hyperplasia		
A03	F	44	Breast	Adenosis of breast		
A04	F	24	Breast	Adenoma		
A05	F	25	Breast	Adenoma		
A06	F	54	Breast	Invasive ductal carcinoma	II	T4N2M0
A07	F	61	Breast	Invasive ductal carcinoma	II	T2N2M0
A08	F	41	Breast	Invasive ductal carcinoma	II	T2N0M0
A09	F	45	Breast	Invasive ductal carcinoma	III	T2N1M0
A10	F	54	Breast	Invasive ductal carcinoma	II	T2N0M0
A11	F	39	Breast	Invasive ductal carcinoma	II	T3N3M0
A12	F	53	Breast	Invasive ductal carcinoma	III	T2N2M0
A13	F	42	Breast	Carcinoma in situ		
A14	F	58	Breast	Invasive ductal carcinoma	II	T2N0M0
A15	F	49	Breast	Invasive ductal carcinoma	III	T4N0M0
B01	F	33	Breast	Hyperplasia		
B02	F	35	Breast	Hyperplasia		
B03	F	44	Breast	Adenosis of breast		
B04	F	24	Breast	Adenoma		
B05	F	25	Breast	Adenoma		
B06	F	54	Breast	Invasive ductal carcinoma	II	T4N2M0
B07	F	61	Breast	Invasive ductal carcinoma	II	T2N2M0
B08	F	41	Breast	Invasive ductal carcinoma	II	T2N0M0
B09	F	45	Breast	Invasive ductal carcinoma	III	T2N1M0
B10	F	54	Breast	Invasive ductal carcinoma	II	T2N0M0
B11	F	39	Breast	Invasive ductal carcinoma	II	T3N3M0
B12	F	53	Breast	Invasive ductal carcinoma	III	T2N2M0
B13	F	42	Breast	Carcinoma in situ		
B14	F	58	Breast	Invasive ductal carcinoma	II	T2N0M0
B15	F	49	Breast	Invasive ductal carcinoma	III	T4N0M0

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C01	F	48	Breast	Invasive ductal carcinoma	II	T2N1M0
C02	F	53	Breast	Invasive ductal carcinoma	III	T2N3M0
C03	F	48	Breast	Invasive ductal carcinoma	III	T2N1M0
C04	F	35	Breast	Invasive ductal carcinoma	II	T2N0M0
C05	F	42	Breast	Invasive ductal carcinoma	III	T2N0M0
C06	F	61	Breast	Invasive ductal carcinoma	III	T2N0M0
C07	F	62	Breast	Invasive ductal carcinoma	II	T2N2M0
C08	F	52	Breast	Invasive ductal carcinoma	III	T2N1M0
C09	F	45	Breast	Invasive ductal carcinoma	II	T2N1M0
C10	F	55	Breast	Invasive ductal carcinoma	Ι	T4N2M0
C11	F	57	Breast	Invasive ductal carcinoma	III	T2N2M0
C12	F	74	Breast	Invasive ductal carcinoma	II	T2N0M0
C13	F	56	Breast	Invasive ductal carcinoma	II	T2N1M0
C14	F	40	Breast	Invasive ductal carcinoma	II~III	T2N2M0
C15	F	40	Breast	Invasive ductal carcinoma	III	T2N1M0
D01	F	48	Breast	Invasive ductal carcinoma	II	T2N1M0
D02	F	53	Breast	Invasive ductal carcinoma	III	T2N3M0
D03	F	48	Breast	Invasive ductal carcinoma	III	T2N1M0
D04	F	35	Breast	Invasive ductal carcinoma	II	T2N0M0
D05	F	42	Breast	Invasive ductal carcinoma	III	T2N0M0
D06	F	61	Breast	Invasive ductal carcinoma	III	T2N0M0
D07	F	62	Breast	Invasive ductal carcinoma	II	T2N2M0
D08	F	52	Breast	Invasive ductal carcinoma	III	T2N1M0
D09	F	45	Breast	Invasive ductal carcinoma	II	T2N1M0
D10	F	55	Breast	Invasive ductal carcinoma	Ι	T4N2M0
D11	F	57	Breast	Invasive ductal carcinoma	III	T2N2M0
D12	F	74	Breast	Invasive ductal carcinoma	II	T2N0M0
D13	F	56	Breast	Invasive ductal carcinoma	II	T2N1M0
D14	F	40	Breast	Invasive ductal carcinoma	II~III	T2N2M0
D15	F	40	Breast	Invasive ductal carcinoma	III	T2N1M0
E01	F	52	Breast	Invasive ductal carcinoma	III	T2N1M0
E02	F	45	Breast	Invasive ductal carcinoma	III	T2N0M0
E03	F	60	Breast	Invasive ductal carcinoma	II	T4N1M0
E04	F	80	Breast	Invasive ductal carcinoma	III	T4N0M0
E05	F	46	Breast	Invasive ductal carcinoma	II	T2N1M0
E06	F	64	Breast	Invasive ductal carcinoma	II	T3N0M0
E07	F	55	Breast	Invasive ductal carcinoma	II	T2N0M0
E08	F	56	Breast	Invasive ductal carcinoma	II	T2N1M0
E09	F	59	Breast	Invasive ductal carcinoma	II	T2N0M0
E10	F	59	Breast	Invasive ductal carcinoma	II	T2N0M0
E11	F	40	Breast	Invasive ductal carcinoma	III	T2N2M0
E12	F	65	Breast	Invasive ductal carcinoma	II	T4N2M0
E13	F	51	Breast	Invasive ductal carcinoma	II	T2N0M0
E14	F	32	Breast	Invasive ductal carcinoma	II	T2N0M0
E15	F	53	Breast	Invasive ductal carcinoma	III	T2N0M0
F01	F	52	Breast	Invasive ductal carcinoma	III	T2N1M0
F02	F	45	Breast	Invasive ductal carcinoma	III	T2N0M0



	A	dvancing	Biomedical Scien	ice Through Tissue Amaya		
F03	F	60	Breast	Invasive ductal carcinoma	II	T4N1M0
F04	F	80	Breast	Invasive ductal carcinoma	III	T4N0M0
F05	F	46	Breast	Invasive ductal carcinoma	II	T2N1M0
F06	F	64	Breast	Invasive ductal carcinoma	II	T3N0M0
F07	F	55	Breast	Invasive ductal carcinoma	II	T2N0M0
F08	F	56	Breast	Invasive ductal carcinoma	II	T2N1M0
F09	F	59	Breast	Invasive ductal carcinoma	II	T2N0M0
F10	F	59	Breast	Invasive ductal carcinoma	II	T2N0M0
F11	F	40	Breast	Invasive ductal carcinoma	III	T2N2M0
F12	F	65	Breast	Invasive ductal carcinoma	II	T4N2M0
F13	F	51	Breast	Invasive ductal carcinoma	II	T2N0M0
F14	F	32	Breast	Invasive ductal carcinoma	II	T2N0M0
F15	F	53	Breast	Invasive ductal carcinoma	III	T2N0M0
G01	F	38	Breast	Invasive ductal carcinoma	II	T2N1M0
G02	F	53	Breast	Invasive ductal carcinoma	II	T2N3M0
G03	F	61	Breast	Invasive ductal carcinoma	II	T4N2M0
G04	F	54	Breast	Invasive ductal carcinoma	II	T4N3M0
G05	F	40	Breast	Invasive ductal carcinoma	III	T2N0M0
G06	F	80	Breast	Invasive ductal carcinoma	II	T2N0M0
G07	F	50	Breast	Invasive ductal carcinoma	III	T2N0M0
G08	F	41	Breast	Invasive ductal carcinoma	II	T2N3M0
G09	F	49	Breast	Invasive ductal carcinoma	III	T3N2M0
G10	F	45	Breast	Invasive ductal carcinoma	II	T2N3M0
G11	F	51	Breast	Invasive ductal carcinoma	II	T2N3M0
G12	F	59	Breast	Invasive ductal carcinoma	II	T4N2M0
G13	F	30	Breast	Invasive ductal carcinoma	II	T2N3M0
G14	F	56	Breast	Invasive ductal carcinoma	II	T2N1M0
G15	F	33	Breast	Invasive ductal carcinoma	III	T2N0M0
H01	F	38	Breast	Invasive ductal carcinoma	II	T2N1M0
H02	F	53	Breast	Invasive ductal carcinoma	II	T2N3M0
H03	F	61	Breast	Invasive ductal carcinoma	II	T4N2M0
H04	F	54	Breast	Invasive ductal carcinoma	II	T4N3M0
H05	F	40	Breast	Invasive ductal carcinoma	III	T2N0M0
H06	F	80	Breast	Invasive ductal carcinoma	II	T2N0M0
H07	F	50	Breast	Invasive ductal carcinoma	III	T2N0M0
H08	F	41	Breast	Invasive ductal carcinoma	II	T2N3M0
H09	F	49	Breast	Invasive ductal carcinoma	III	T3N2M0
H10	F	45	Breast	Invasive ductal carcinoma	II	T2N3M0
H11	F	51	Breast	Invasive ductal carcinoma	II	T2N3M0
H12	F	59	Breast	Invasive ductal carcinoma	II	T4N2M0
H13	F	30	Breast	Invasive ductal carcinoma	II	T2N3M0
H14	F	56	Breast	Invasive ductal carcinoma	II	T2N1M0
H15	F	33	Breast	Invasive ductal carcinoma	III	T2N0M0
I01	F	61	Breast	Invasive ductal carcinoma	III	T3N0M0
I02	F	50	Breast	Invasive ductal carcinoma	II	T4N3M0
103	F	79	Breast	Invasive ductal carcinoma	II	T4N1M0
I04	F	66	Breast	Invasive lobular carcinoma	II	T4N0M0

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105	F	60	Breast	Invasive ductal carcinoma	III	T2N0M0
106	F	49	Breast	Invasive ductal carcinoma	III	T3N2M0
107	F	51	Breast	Invasive ductal carcinoma	II	T2N0M0
108	F	66	Breast	Invasive ductal carcinoma	II	T2N2M0
109	F	58	Breast	Invasive ductal carcinoma	II	T4N1M0
I10	F	47	Breast	Carcinoma in situ		
I11	F	45	Breast	Adenoid cystic carcinoma		T2N0M0
I12	F	39	Breast	Invasive lobular carcinoma		T2N0M0
I13	F	38	Breast	Invasive lobular carcinoma		T2N0M0
I14	F	49	Breast	Invasive lobular carcinoma		T3N2M0
I15	F	50	Breast	Invasive lobular carcinoma		T4N3M0
J01	F	61	Breast	Invasive ductal carcinoma	III	T3N0M0
J02	F	50	Breast	Invasive ductal carcinoma	II	T4N3M0
J03	F	79	Breast	Invasive ductal carcinoma	II	T4N1M0
J04	F	66	Breast	Invasive lobular carcinoma	II	T4N0M0
J05	F	60	Breast	Invasive ductal carcinoma	III	T2N0M0
J06	F	49	Breast	Invasive ductal carcinoma	III	T3N2M0
J07	F	51	Breast	Invasive ductal carcinoma	II	T2N0M0
J08	F	66	Breast	Invasive ductal carcinoma	II	T2N2M0
J09	F	58	Breast	Invasive ductal carcinoma	II	T4N1M0
J10	F	47	Breast	Carcinoma in situ		
J11	F	45	Breast	Adenoid cystic carcinoma		T2N0M0
J12	F	39	Breast	Invasive lobular carcinoma		T2N0M0
J13	F	38	Breast	Invasive lobular carcinoma		T2N0M0
J14	F	49	Breast	Invasive lobular carcinoma		T3N2M0
J15	F	50	Breast	Invasive lobular carcinoma		T4N3M0

**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 greasiest dimension

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



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# 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)