
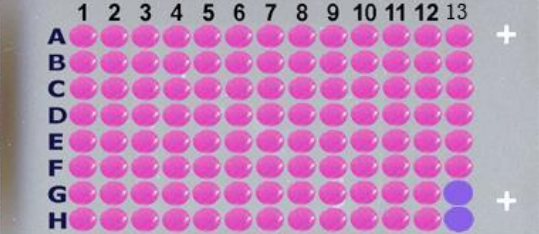


Cat No: BRD1021 Breast disease tissue array

Lot#	Cores	Size	Cut	Format	QA/QC		
BRD102101	102	1.5mm	4um	8X13	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, 102 cases of normal breasts, fibrocystic changes, proliferative breast diseases (atypical) and various breast cancers with grading and 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	43	Breast	Normal	null	null
A02	F	42	Breast	Normal	null	null
A03	F	33	Breast	Normal	null	null
A04	F	40	Breast	Normal	null	null
A05	F	39	Breast	Normal	null	null
A06	F	57	Breast	Normal	null	null
A07	F	50	Breast	Normal	null	null
A08	F	43	Breast	Normal	null	null
A09	F	27	Breast	Normal	null	null
A10	F	42	Breast	Normal	null	null
A11	F	32	Breast	Normal	null	null
A12	F	37	Breast	Normal	null	null
A13	F	45	Breast	Normal	null	null
B01	F	41	Breast	Normal	null	null
B02	F	58	Breast	Normal	null	null
B03	F	45	Breast	Normal	null	null
B04	F	33	Breast	Normal	null	null
B05	F	40	Breast	Normal	null	null
B06	F	50	Breast	Normal	null	null
B07	F	29	Breast	Normal	null	null
B08	F	42	Breast	Normal	null	null
B09	F	50	Breast	Normal	null	null
B10	F	38	Breast	Normal	null	null
B11	F	35	Breast	Normal	null	null
B12	F	54	Breast	Normal	null	null
B13	F	45	Breast	Normal	null	null
C01	F	49	Breast	Normal	null	null
C02	F	45	Breast	Normal	null	null
C03	F	33	Breast	Normal	null	null
C04	F	38	Breast	Normal	null	null
C05	F	21	Breast	Fibroadenoma	null	null
C06	F	23	Breast	Fibroadenoma	null	null
C07	F	17	Breast	Fibroadenoma	null	null
C08	F	25	Breast	Fibroadenoma	null	null
C09	F	18	Breast	Fibroadenoma	null	null
C10	F	25	Breast	Fibroadenoma	null	null
C11	F	25	Breast	Fibroadenoma	null	null
C12	F	12	Breast	Fibroadenoma	null	null
C13	F	21	Breast	Fibroadenoma	null	null
D01	F	34	Breast	Fibroadenoma	null	null



Advancing Biomedical Science Through Tissue Arrays

D02	F	43	Breast	Fibrocystic changes	null	null
D03	F	45	Breast	Fibrocystic changes	null	null
D04	F	42	Breast	Fibrocystic changes	null	null
D05	F	19	Breast	Fibrocystic changes	null	null
D06	F	37	Breast	Fibrocystic changes	null	null
D07	F	38	Breast	Fibrocystic changes	null	null
D08	F	51	Breast	Fibrocystic changes	null	null
D09	F	45	Breast	Fibrocystic changes	null	null
D10	F	52	Breast	Fibrocystic changes	null	null
D11	F	31	Breast	Atypical hyperplasia	null	null
D12	F	51	Breast	Atypical hyperplasia	null	null
D13	F	51	Breast	Atypical hyperplasia	null	null
E01	F	29	Breast	Atypical hyperplasia	null	null
E02	F	47	Breast	Atypical hyperplasia	null	null
E03	F	41	Breast	Atypical hyperplasia	null	null
E04	F	34	Breast	Atypical hyperplasia	null	null
E05	F	43	Breast	Severe atypical hyperplasia	null	null
E06	F	35	Breast	Severe atypical hyperplasia	null	null
E07	F	57	Breast	Severe atypical hyperplasia	null	null
E08	F	63	Breast	Severe atypical hyperplasia	null	null
E09	F	36	Breast	Ductal carcinoma in situ	null	TisN0M0
E10	F	56	Breast	Ductal carcinoma in situ	I	TisN1M0
E11	F	54	Breast	Ductal carcinoma in situ	null	TisN0M0
E12	F	48	Breast	Ductal carcinoma in situ	null	TisN0M0
E13	F	49	Breast	Ductal carcinoma in situ	null	TisN0M0
F01	F	21	Breast	Ductal carcinoma in situ	null	TisN0M0
F02	F	53	Breast	Ductal carcinoma in situ	null	TisN0M0
F03	F	80	Breast	Invasive ductal carcinoma	I~II	T2N0M0
F04	F	45	Breast	Ductal carcinoma in situ	null	TisN0M0
F05	F	46	Breast	Ductal carcinoma in situ	null	TisN0M0
F06	F	56	Breast	Invasive lobular carcinoma	I	T2N1M0
F07	F	47	Breast	Invasive ductal carcinoma	I	T2N0M0
F08	F	52	Breast	Invasive ductal carcinoma	I	T2N1M0
F09	F	57	Breast	Invasive ductal carcinoma	II	T2N0M0
F10	F	50	Breast	Invasive lobular carcinoma	I	T2N0M0
F11	F	75	Breast	Invasive ductal carcinoma	II	T2N0M0
F12	F	86	Breast	Invasive ductal carcinoma	II	T4N0M0
F13	F	48	Breast	Invasive ductal carcinoma	II	T2N0M0
G01	F	35	Breast	Invasive ductal carcinoma	II	T2N0M0
G02	F	44	Breast	Invasive ductal carcinoma	II	T3N1M0
G03	F	41	Breast	Invasive ductal carcinoma	II	T3N0M0
G04	F	48	Breast	Invasive ductal carcinoma	II	T2N1M0
G05	F	40	Breast	Invasive ductal carcinoma	II	T2N0M0
G06	F	33	Breast	Invasive ductal carcinoma	II	T2N0M0
G07	F	51	Breast	Invasive ductal carcinoma	II	T2N0M0
G08	F	50	Breast	Invasive ductal carcinoma	II	T3N1M0
G09	F	43	Breast	Invasive ductal carcinoma	II	T2N0M0
G10	F	38	Breast	Invasive ductal carcinoma	II	T2N1M0
G11	F	52	Breast	Invasive ductal carcinoma	II	T2N0M0
G12	F	74	Breast	Invasive ductal carcinoma	II	T2N0M0
H01	F	69	Breast	Invasive ductal carcinoma	II	T2N1M0
H02	F	40	Breast	Invasive ductal carcinoma	II	T2N1M0
H03	F	38	Breast	Invasive ductal carcinoma	II	T2N0M0
H04	F	54	Breast	Invasive ductal carcinoma	II	T2N0M0
H05	F	55	Breast	Invasive ductal carcinoma	II	T4N1M0
H06	F	60	Breast	Invasive ductal carcinoma	II	T2N0M0
H07	F	51	Breast	Invasive ductal carcinoma	II	T2N0M0
H08	F	68	Breast	Invasive ductal carcinoma	II	T4N0M0
H09	F	40	Breast	Invasive ductal carcinoma	III	T2N0M0
H10	F	36	Breast	Invasive ductal carcinoma	III	T2N1M0
H11	F	36	Breast	Invasive ductal carcinoma	III	T2N0M0



H12	F	35	Breast	Invasive ductal carcinoma	III	T2N0M0
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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.

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)