

Data Sheet

Product Name: Breast Tumor Tissue Array - Duplicated 36 cases covering all the common types of breast cancer and 12 cases of normal and other non-malignant breast tissues II

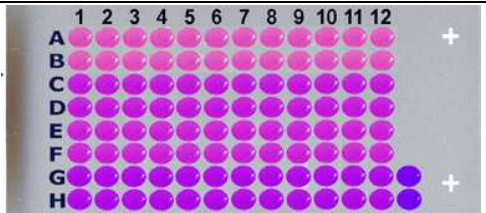
Catalog No.: Z7020009

Lot No.: B507119

Species: Human Mouse Rat Monkey (Rh) Guinea Pig Porcine
 Bovine Hamster Dog Monkey (Cy) Rabbit Plant

Tissue Type: Normal Adult Fetal Tumor Disease

Tissue Array Diagram:

Cores	Size	Cut	Format	QA/QC	
96	1.5 mm	4 µm	8X12	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, 96 cores, non-overlapping with Z7020008, including 36 cases of breast cancers and 12 cases of normal, reactive and benign tumor tissues of the breast in duplicates. 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 4°C from the date of shipment. Each slide has >95% tissue core retention.

Position	Sex	Age	Histology	Grade	Stage (TNM)	AR	ER	PR	HER2
A01	F	50	Normal			+, 1%	++, 2%	+++, 2%	-
A02	F	47	Normal, hyperplasia			+, 5%	+, 1%	+++, 2%	-
A03	F	40	Normal, hyperplasia			-	-	++, 2%	-
A04	F	32	Normal, hyperplasia			++, 5%	++, 1%	-	-
A05	F	50	Granuloma			-	-	-	-
A06	F	30	Granuloma			-	-	-	-
A07	F	50	Fibrocystic changes			++, 5%	++, 1%	-	+
A08	F	43	Fibrocystic changes			+, 2%	+, 5%	-	-

A09	F	25	Fibroadenoma			++~+++, 30%	+++, 30%	+++, 15%	+~+++
A10	F	20	Fibroadenoma			++, 20%	++~+++, 30%	+++, 50%	+
A11	F	21	Fibroadenoma			++, 50%	+++, 80%	+++, 60%	+
A12	F	50	Fibroadenoma			+, 10%	++, 15%	+++, 30%	+
B01	F	50	Normal			+, 1%	++, 2%	+++, 2%	-
B02	F	47	Normal, hyperplasia			+, 5%	+, 1%	+++, 2%	-
B03	F	40	Normal, hyperplasia			-	-	++, 2%	-
B04	F	32	Normal, hyperplasia			++, 5%	++,1%	-	-
B05	F	50	Granuloma			-	-	-	-
B06	F	30	Granuloma			-	-	-	-
B07	F	50	Fibrocystic changes			++, 5%	++, 1%	-	+
B08	F	43	Fibrocystic changes			+, 2%	+, 5%	-	-
B09	F	25	Fibroadenoma			++~+++, 30%	+++, 30%	+++, 15%	+~+++
B10	F	20	Fibroadenoma			++, 20%	++~+++, 30%	+++, 50%	+
B11	F	21	Fibroadenoma			++, 50%	+++, 80%	+++, 60%	+
B12	F	50	Fibroadenoma			+, 10%	++, 15%	+++, 30%	+
C01	F	43	Ductal carcinoma in situ	I	TisN0M0	-	-	-	+++
C02	F	60	Ductal carcinoma in situ	I	TisN0M0	-	-	-	+++
C03	F	37	Ductal carcinoma in situ	I	TisN0M0	++, 10%	++~+++, 80%	++~+++, 50%	+~+++
C04	F	41	Lobular carcinoma in situ	I	TisN0M0	-	+, 20%	+++, 80%	+
C05	F	30	Phyllodes sarcoma			-	-	-	-
C06	F	48	Invasive ductal carcinoma	II	T1N0M0	++, 50%	++~+++, 60%	+++, 80%	-
C07	F	44	Invasive ductal carcinoma	II~III	T1N0M0	-	-	-	+++
C08	F	61	Invasive ductal carcinoma	II~III	T1N0M0	+~+++, 30%	+++, 100%	++, 50%	+
C09	F	40	Invasive ductal carcinoma	II~III	T1N0M0	+~+++, 30%	++, 60%	++~+++, 80%	++
C10	F	38	Invasive ductal carcinoma	I~II	T1N0M0	+, 15%	+, 15%	++, 30%	++~+++ +
C11	F	43	Invasive ductal carcinoma	III	T2N0M0	-	+, 20%	++, 30%	-
C12	F	48	Invasive ductal carcinoma	II	T2N0M0	-	+~+++, 50%	++~+++, 80%	-
D01	F	43	Ductal carcinoma in situ	I	TisN0M0	-	-	-	+++
D02	F	60	Ductal carcinoma in situ	I	TisN0M0	-	-	-	+++
D03	F	37	Ductal carcinoma in situ	I	TisN0M0	++, 10%	++~+++, 80%	++~+++, 50%	+~+++

D04	F	41	Lobular carcinoma in situ	I	TisN0M0	-	+, 20%	+++ 80%	+
D05	F	30	Phyllodes sarcoma			-	-	-	-
D06	F	48	Invasive ductal carcinoma	II	T1N0M0	++, 50%	++~++++ 60%	+++ 80%	-
D07	F	44	Invasive ductal carcinoma	II~III	T1N0M0	-	-	-	+++
D08	F	61	Invasive ductal carcinoma	II~III	T1N0M0	+~+++ 30%	+++ 100%	++ 50%	+
D09	F	40	Invasive ductal carcinoma	II~III	T1N0M0	+~+++ 30%	++ 60%	++~++++ 80%	++
D10	F	38	Invasive ductal carcinoma	I~II	T1N0M0	+, 15%	+, 15%	++ 30%	++~+++ +
D11	F	43	Invasive ductal carcinoma	III	T2N0M0	-	+, 20%	++ 30%	-
D12	F	48	Invasive ductal carcinoma	II	T2N0M0	-	+~+++ 50%	++~++++ 80%	-
E01	F	62	Invasive ductal carcinoma	II~III	T2N0M0	-	+++ 90%	+++ 60%	+
E02	F	47	Invasive ductal carcinoma	II~III	T2N2M0	-	++ 50%	++ 30%	+
E03	F	59	Invasive ductal carcinoma	II	T2N0M0	-	-	-	-
E04	F	72	Invasive ductal carcinoma	I~II	T2N1M0	-	-	-	-
E05	F	36	Invasive lobular carcinoma	I~II	T2N2M0	-	-	-	+++
E06	F	48	Invasive ductal carcinoma	II~III	T2N0M0	-	-	-	+++
E07	F	44	Invasive ductal carcinoma	II~III	T2N0M0	-	+~+++ 50%	-	-
E08	F	56	Invasive ductal carcinoma	I~II	T2N0M0	++ 5%	-	-	+++
E09	F	50	Invasive ductal carcinoma	II	T2N1M0	-	-	-	++~+++ +
E10	F	50	Invasive ductal carcinoma	II~III	T2N0M0	++ 5%	+++ 80%	+++ 80%	+
E11	F	83	Invasive ductal carcinoma	II	T4N0M0	+~+++ 10%	+++ 80%	++ 50%	+
E12	F	64	Invasive ductal carcinoma	III	T2N0M0	-	++~++++ 80%	++ 20%	-
F01	F	62	Invasive ductal carcinoma	II~III	T2N0M0	-	+++ 90%	+++ 60%	+
F02	F	47	Invasive ductal carcinoma	II~III	T2N2M0	-	++ 50%	++ 30%	+
F03	F	59	Invasive ductal carcinoma	II	T2N0M0	-	-	-	-
F04	F	72	Invasive ductal carcinoma	I~II	T2N1M0	-	-	-	-
F05	F	36	Invasive lobular carcinoma	I~II	T2N2M0	-	-	-	+++
F06	F	48	Invasive ductal carcinoma	II~III	T2N0M0	-	-	-	+++
F07	F	44	Invasive ductal carcinoma	II~III	T2N0M0	-	+~+++ 50%	-	-
F08	F	56	Invasive ductal carcinoma	I~II	T2N0M0	++ 5%	-	-	+++
F09	F	50	Invasive ductal carcinoma	II	T2N1M0	-	-	-	++~+++ +

F10	F	50	Invasive ductal carcinoma	II~III	T2N0M0	++, 5%	+++ 80%	+++ 80%	+
F11	F	83	Invasive ductal carcinoma	II	T4N0M0	+~++ 10%	+++ 80%	++ 50%	+
F12	F	64	Invasive ductal carcinoma	III	T2N0M0	-	++~+++ 80%	++ 20%	-
G01	F	58	Invasive ductal carcinoma	II	T2N1M0	-	-	-	-
G02	F	32	Invasive ductal carcinoma	II	T3N1M0	-	-	++ 20%	++~+++ +
G03	F	60	Invasive ductal carcinoma	III	T4N0M0	-	-	-	+++
G04	F	58	Invasive ductal carcinoma	III	T1N0M0	-	-	-	-
G05	F	54	Invasive ductal carcinoma	II~III	T3N3M0	-	-	-	++~+++ +
G06	F	33	Invasive lobular carcinoma	I	T4N0M0	++ 20%	+++ 80%	+++ 50%	-
G07	F	51	Invasive ductal carcinoma	II~III	T4N1M0	++ 30%	+++ 80%	-	-
G08	F	55	Invasive lobular carcinoma	III	T3N1M0	-	+++ 80%	+++ 50%	-
G09	F	36	Invasive ductal carcinoma	II~III	T3N1M0	++ 30%	++ 60%	++~+++ 60%	+++
G10	F	42	Invasive ductal carcinoma	II	T3N0M0	+ 2%	+~+++ 50%	-	+~+++
G11	F	36	Invasive ductal carcinoma	II	T4N0M0	++ 5%	+++ 90%	+++ 100%	+
G12	F	36	Invasive ductal carcinoma	II	T3N1M0	-	-	-	+++
H01	F	58	Invasive ductal carcinoma	II	T2N1M0	-	-	-	-
H02	F	32	Invasive ductal carcinoma	II	T3N1M0	-	-	++ 20%	++~+++ +
H03	F	60	Invasive ductal carcinoma	III	T4N0M0	-	-	-	+++
H04	F	58	Invasive ductal carcinoma	III	T1N0M0	-	-	-	-
H05	F	54	Invasive ductal carcinoma	II~III	T3N3M0	-	-	-	++~+++ +
H06	F	33	Invasive lobular carcinoma	I	T4N0M0	++ 20%	+++ 80%	+++ 50%	-
H07	F	51	Invasive ductal carcinoma	II~III	T4N1M0	++ 30%	+++ 80%	-	-
H08	F	55	Invasive lobular carcinoma	III	T3N1M0	-	+++ 80%	+++ 50%	-
H09	F	36	Invasive ductal carcinoma	II~III	T3N1M0	++ 30%	++ 60%	++~+++ 60%	+++
H10	F	42	Invasive ductal carcinoma	II	T3N0M0	+ 2%	+~+++ 50%	-	+~+++
H11	F	36	Invasive ductal carcinoma	II	T4N0M0	++ 5%	+++ 90%	+++ 100%	+
H12	F	36	Invasive ductal carcinoma	II	T3N1M0	-	-	-	+++

Notes: Bake at 60°C 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.

TNM Classification: Breast carcinoma

T- Primary tumor

TX - Primary tumor cannot be assessed

T0 - 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

N0 - 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

M0 - No distant metastasis

M1 - Distant metastasis

TNM classification of malignant tumours, Fifth Edition (1997)

FOR IN VITRO RESEARCH USE ONLY

APPROVED BY: _____

