

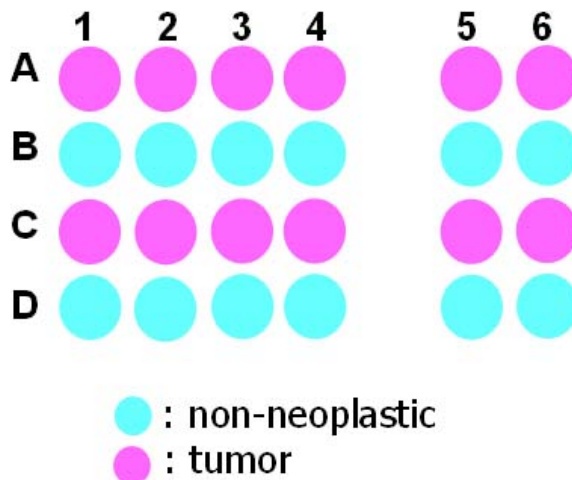
Specifications:

- No. of cases: 12
- Tissue type: Test slide, various cancer tissues with corresponding normal tissues
- No. of spots: 12 spots from each cancer case (12 spots)
12 non-neoplastic spots (12 spots)
- Total spots: 24
- Corresponding normal tissues with cancers: Yes
- Diameter: 1.0 mm

Documents:

- Product specification: layout, summary of tissue spots
- H&E stained images
- Detailed pathological information

Layout:



Notice :
 The layout of tissue arrays can be slightly changed and the loss of spots (~5%) can occur depending on the slide.
 However, AccuMax array on sale has no loss of cases and lower than 5% loss of tissue cores.
 The information on each tissue is provided.

(formalin fixed)

For research use only

Summary of tissue spots

No	Coordinate	Sex	Age	Specimen	Key Word	
1	A1 B1*	1	m	42	Brain	glioblastoma multiforme
2	A2 B2*	2	m	28	Skin	invasive squamous cell carcinoma
3	A3 B3*	3	m	60	Esophagus	squamous cell carcinoma
4	A4 B4*	4	f	75	Lung	papillary adenocarcinoma
5	A5 B5*	5	f	47	Thyroid	papillary carcinoma
6	A6 B6*	6	f	37	Breast	infiltrating ductal carcinoma
7	C1 D1*	1	m	52	Liver	hepatocellular carcinoma
8	C2 D2*	2	m	42	Stomach	signet ring cell carcinoma
9	C3 D3*	3	m	63	Colon	adenocarcinoma
10	C4 D4*	4	m	40	Kidney	renal cell carcinoma
11	C5 D5*	5	f	52	Ovary	serous adenocarcinoma
12	C6 D6*	6	f	35	Cervix	squamous cell carcinoma

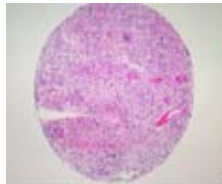
*: corresponding non-neoplastic tissues

**A701(II)-Test slide, Various cancer tissues
with corresponding normal tissues**

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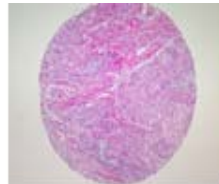
**QC sheet_LOT#132120408051
Hematoxylin and Eosin staining**



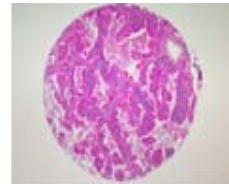
A1



A2



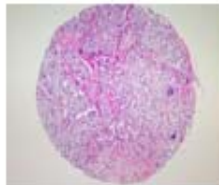
A3



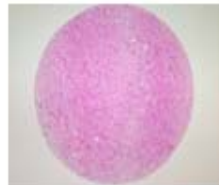
A4



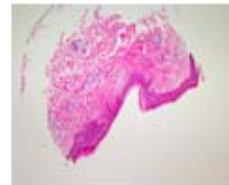
A5



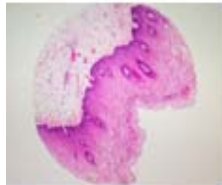
A6



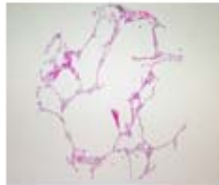
B1



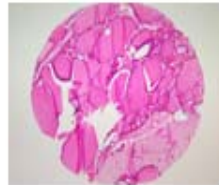
B2



B3



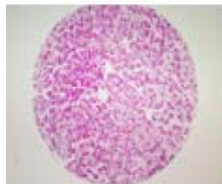
B4



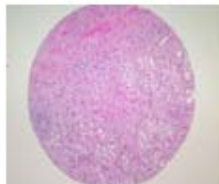
B5



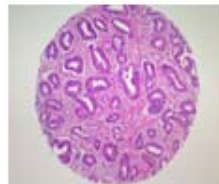
B6



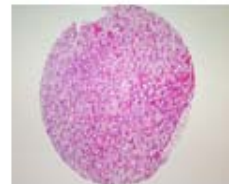
C1



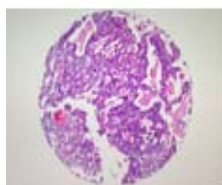
C2



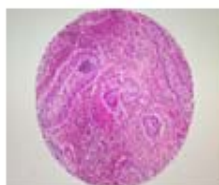
C3



C4



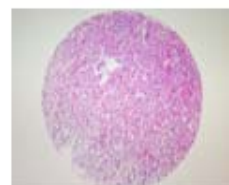
C5



C6



D1



D2



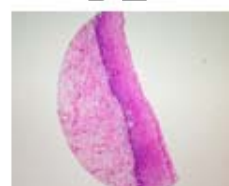
D3



D4



D5



D6

A701(II) : Various cancer tissues with corresponding normal

No	Coordinate		Sex	Age	Specimen	Key Word	Histological Diagnosis
1	A1	1	m	42	Brain	glioblastoma multiforme	Brain, occipital, frozen biopsy: 1) glioblastoma multiforme. 2) results of immunohistochemical stains: GFAP(+), S-100(+), HMB45(-).
	B1*					non-neoplastic	non-neoplastic from A1
2	A2	2	m	28	Skin	invasive squamous cell carcinoma	Skin, scalp, excision: 1) invasive squamous cell carcinoma, well-differentiated with extension to the subcutaneous fat tissue (invasion depth: about 3cm) 2) resection margins, all circumference and base: free of tumor 3) lymph nodes, level 2a(0/36), level 2b(0/11), level III(0/25), level IV(0/13) and level V(0/11):(0/96): free of tumor.
	B2*					non-neoplastic	non-neoplastic from A2
3	A3	3	m	60	Esophagus	squamous cell carcinoma	Esophagus, resection: 1) fungating squamous cell carcinoma, moderately differentiated, - size: 7x4.7cm - extension to the subserosa(no serosa involved) - lymphovascular permeation, present 2) separate mass: leiomyoma, submucosal 3) resection margin, proximal, esophageal: free of tumor 4) resection margin, distal, gastric: free of tumor 5) regional lymph nodes: Tumor metastasis to 2 out of 12 lymph nodes in detail, celiac(0/4), paraesophageal(1/3), regional (1/5).
	B3*					non-neoplastic	non-neoplastic from A3
4	A4	4	f	75	Lung	papillary adenocarcinoma	Lung, RUL, lobectomy with MLND: 1) papillary adenocarcinoma, associated with bronchioloalveolar carcinoma - tumor size: 4.5x3cm - visceral pleura involvement 2) resection margin, bronchial: free of tumor 3) regional lymph nodes: free of tumor in all nodes(0/21), in detail, regional(0/1), IPL(0/1), hilar(0/2), subcarinal(0/9), lower paratracheal(0/7), peribronchial(0/1).
	B4*					non-neoplastic	non-neoplastic from A4

A701(II) : Various cancer tissues with corresponding normal

No	Coordinate	Sex	Age	Specimen	Key Word	Histological Diagnosis
5	A5	5	f	47	Thyroid	<p>papillary carcinoma</p> <p>Thyroid glands, bilateral with lymph nodes, right anterolateral, total thyroidectomy with dissection: 1) papillary carcinoma involving both lobes (intrathyroidal metastasis) and penetrating capsule with extension to the perithyroidal soft tissue 2) resection margin: free of tumor 3) lymph nodes, No.3,4(0/14), No.6,7(1/4):(1/18): metastatic papillary carcinoma in 1 out of 18 lymph nodes 4) soft tissue, submitted as No.6,7 lymph node: presence of papillary carcinoma.</p>
	B5*					<p>non-neoplastic</p> <p>non-neoplastic from A5</p>
6	A6	6	f	37	Breast	<p>infiltrating ductal carcinoma</p> <p>Breast, right, total mastectomy: 1) infiltrating ductal carcinoma - size: 2x1.8x1.3cm - black's nuclear grade 1 (poorly differentiated) - modified Bloom-Richardson's histological grade III (tubule formation: 3, nuclear pleomorphism: 3, mitosis: 3) - intraductal component within the mass of infiltrating ductal carcinoma: less than 5% - extensive ductal carcinoma in situ (comedocarcinoma) in adjacent parenchyme with scattered foci of microinvasion (separate from the main mass) - occasional lymphatic permeation 2) nipple and areola: free of tumor 3) underlying fascia: free of tumor 4) lymph nodes, axillary(2/8), level metastatic adenocarcinoma in 2 out of 8 nodes (size of metastatic tumor: 1.5mm) (pN1a: only micrometastasis) 5) result of immunohistochemistry: ER(-) PR(-) C-erb B2(+)</p>
	B6*					<p>non-neoplastic</p> <p>non-neoplastic from A6</p>
7	C1	1	m	52	Liver	<p>hepatocellular carcinoma</p> <p>1. Liver, right lobe, lobectomy and cholecystectomy: hepatocellular carcinoma, ruptured with 1) size: 15cm in the greatest diameter 2) Edmondson grade II 3) macrotrabecular type 4) single nodular type with capsulation and expanding growth 5) necrosis: less than 20% of total volume 6) vascular invasion 7) necrosis: about 20% of total volume 8) non-neoplastic liver showing chronic hepatitis, B-viral, mild inflammatory activity (grade II) and early cirrhosis (stage III) 2. Gallbladder: autolysis without tumor metastasis.</p>
	D1*					<p>non-neoplastic</p> <p>non-neoplastic from C1</p>

A701(II) : Various cancer tissues with corresponding normal

No	Coordinate	Sex	Age	Specimen	Key Word	Histological Diagnosis	
8	C2	2	m	42	Stomach	signet ring cell carcinoma	Stomach, radical subtotal gastrectomy: 1) signet ring cell carcinoma, ulceroinfiltrative type, with extension to the perigastric fat tissue and exposure to free serosal surface 2) resection margin, separately submitted as proximal margin: free of tumor 3) resection margin, distal margin: free of tumor 4) lymph nodes, No.3(0/11), No.4(0/11), No.6(0/5), No.7(0/13) and No.8(0/3):(0/43): free of tumor.
	D2*					non-neoplastic	non-neoplastic from C2
9	C3	3	m	63	Colon	adenocarcinoma	Colorectum with pericolic fatty tissue and terminal ileum, total proctocolectomy: 1) distal mass: ulcerofungating adenocarcinoma, moderately differentiated with - size: 4.8x4cm - infiltrative growth - penetration of sphincteric muscle and extension to perirectal soft tissue - intact lateral resection margin - no vascular and perineural invasion 2) middle mass: ulcerofungating adenocarcinoma, moderately differentiated with - size: 3.3x2.5cm - extension to the inner muscle - no vascular invasion 3) proximal mass: tubulovillous adenoma with low grade dysplasia 4) scattered polypoid lesions: tubular adenomas with low to high grade dysplasia 5) resection margins, proximal, distal and lateral: free of tumor 6) lymph node: metastatic adenocarcinoma in 5 out of 68 nodes(5/68), in detail, pericolic LN(5/63), principal LN(0/5) 7) appendix: free of tumor. MSI(Microsatellite instability) test Marker Name bat26 D5S346 bat25 D17S250 D2S123 Microsatellite No No No No No MSS instability Allelic uninformative uninformative uninformative No Imbalance
	D3*					non-neoplastic	non-neoplastic from C3
10	C4	4	m	40	Kidney	renal cell carcinoma	Kidney, right, renal nephrectomy: 1) renal cell carcinoma, clear cell type - Fuhrman's nuclear grade : I - no renal vein involvement 2) resection margin, ureter: free of tumor.
	D4*					non-neoplastic	non-neoplastic from C4

A701(II) : Various cancer tissues with corresponding normal

No	Coordinate	Sex	Age	Specimen	Key Word	Histological Diagnosis	
11	C5	5	f	52	Ovary	serous adenocarcinoma	1.Uterus, total abdominal hysterectomy with bilateral salpingoophorectomy: 1) cervix: High grade squamous intraepithelial lesion (CIN III, carcinoma in situ) 2) endometrium: atrophy 3) myometrium : -leiomyoma - serosal invasion by ovarian adenocarcinoma 4) parametrium: extension of adenocarcinoma 5) ovaries, bilateral: mixed carcinoma composing papillary serous adenocarcinoma, grade 3, with clear cell carcinoma, with extraovarian spread 6) fallopian tubes, both: serosal extension of adenocarcinoma 2.Urinary bladder, colon, cul-de-sac and omentum: extension of adenocarcinoma.
	D5*					non-neoplastic	Ovary, right, oophorectomy: mucinous cystadenoma.
12	C6	6	f	35	Cervix	squamous cell carcinoma	Uterus with adnexa, left and lymph node, pelvic, radical abdominal hysterectomy with left salpingoophorectomy and dissection: 1) cervix: invasive adenosquamous cell carcinoma with focal lymphovascular permeation showing squamous cell carcinoma, large cell, non-keratinizing type (invasion depth: 1.2cm), and mucinous adenocarcinoma, endocervical type, moderately differentiated 2) endometrium: secretory phase 3) myometrium: no pathological diagnosis 4) ovary, left: no pathological diagnosis 5) fallopian tube, left: no pathological diagnosis 6) parametria, bilateral: free of tumor 7) vaginal cuff: free of tumor 8) lymph nodes, right pelvic(0/14), left pelvic(2/7) and common iliac (0/3),(2/24): metastatic adenosquamous cell carcinoma in 2 out of 24 lymph nodes.
	D6*					non-neoplastic	non-neoplastic from C6