



FDA Standard Frozen Tissue Array

Best tool for therapeutic and *in vivo* diagnostic antibody validation

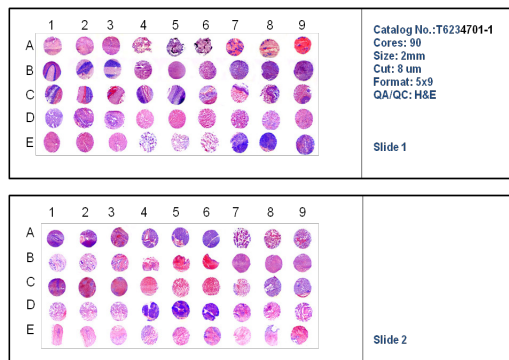


Figure 1. FDA Standard Frozen Tissue Arrays stained with H&E. 90 tissues spotted on 2 glass slides.
Slide 1: A7, A8, A9 are breast tissues from 3 donors.
Slide 2: D4, D5, D6, are thymus tissues from 3 donors.

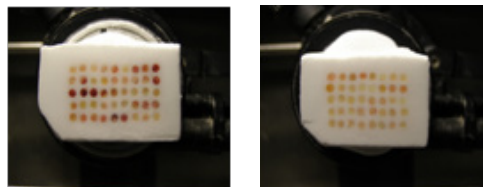


Figure 2. BioChain's Frozen Tissue Array blocks in OCT compound.

Antibodies intended for therapeutic clinical purposes and antibodies used in manufacturing of products for *in vivo* functions must be evaluated for cross-reactivity as specified by the FDA. For submission of Investigational New Drug Applications (IND) and License Applications, the FDA recommends testing non-target tissue binding with non-fixed frozen tissue to test antibody reactivity on native protein structures. The FDA also proposes evaluating cross-reactivity on multiple tissue types from three unrelated donors. Biochain can facilitate this with high quality tissue array.

Key Features

- **30 human normal tissues** arrayed according to FDA guidelines
- **3 donors** per specific tissue type following FDA regulations
- **Time-efficient and cost-effective** for screening cross-reactivity and binding specificity
- **Validation of antibodies** used for manufacturing of all *in vivo* products
- **Convenience** of multiple-donor tissue arrangements for polymorphism screening

Benefits of BioChain's frozen tissue array:

- Flash frozen tissue in liquid nitrogen for best tissue preservation
- 45 cores of 2mm in diameter spotted per slide
- Large tissue area per core for increased analysis
- 8 μ m thick serial sections
- Clinical information available for all samples
- Quality control
 - Stained with H&E to ensure optimal morphology
 - Tested with IHC control biomarkers to verify tissue integrity
- Optimal orientation and region selected for each core
- Similar frozen arrays available for mouse and rat

Catalog No.	Product
T6234701	FDA Standard Frozen Tissue Array - Human Adult Normal
T6334701	FDA Standard Frozen Tissue Array - Mouse
T6434701	FDA Standard Frozen Tissue Array - Rat

BioChain's Collection of Additional Frozen Tissue Arrays

A single slide may contain:

- **Up to 28 multiple tissue types from** adult human, fetal human, dog, or rabbit; or
- **14 different human tumor and corresponding normal tissues;** or
- **Up to 37 tissue specific tumors from human;** or
- **Tissues from 15 species consisting of either brain or liver**

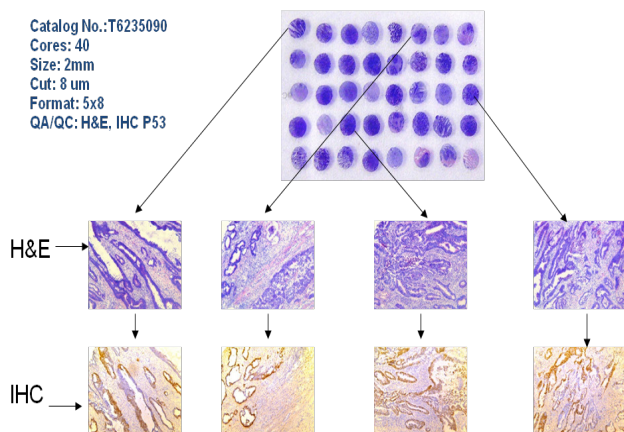


Figure 3. Tissue array containing 37 different human colon tumors and 3 normal controls stained with H&E. IHC was then performed to demonstrate the integrity and localization of relevant biomarkers.

Applications:

- Types of assays: IHC, ISH, and Fish
- Pre-clinical validation of therapeutic antibodies, and verification of antibodies that recognize native 3D structure by IHC
- High throughput screening of genes and proteins
- Characterization of the prevalence and localization of genes

Benefits:

- Decrease sample bias by comparison of gene involvement on the same array
- Reduce experimental disparities with identical treatment for all samples

Customized Arrays Available Upon Request

- Chose from normal, tumor, and diseased tissues
- Choose from gender, age, and ethnicity
- Custom core sizes
- Smaller array available from customer's blocks
- Full service available: sectioning, H&E staining, core selection, and constructing arrays
- Please inquire with your specific needs

Catalog No.	Product
T6234700	Frozen Tissue Array - Human Adult Normal Tissue, Multi-tissue I
T6244700	Frozen Tissue Array - Human Fetal Normal Tissue, Multi-tissue I
T6235700	Frozen Tissue Array - Human Tumor and Normal Tissue, Multi-tissue I
T6235201	Frozen Tissue Array - Human prostate tumor from multiple donors
T6235086	Frozen Tissue Array - Human breast tumor from multiple donors
T6235090	Frozen Tissue Array - Human colon tumor from multiple donors
T6235142	Frozen Tissue Array - Human kidney tumor from multiple donors
T6235152	Frozen Tissue Array - Human lung tumor from multiple donors
T6235183	Frozen Tissue Array - Human ovarian tumor from multiple donors
T6134XXX	Multiple Species Frozen Tissue Array - Brain or Liver

Please inquire about our other tissues and custom services

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