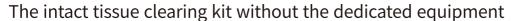
# Binaree<sup>®</sup> Tissue Clearing<sup>™</sup> Kit





The adaptive one solution for multiple tissue types and immuno-staining.



# **Highlights**

- Do the multiple-purpose tissue clearing with HRTC-012 and Mounting Solution: various tissue types and immuno-staining.
- Improve clearing speed for the immuno-staining: HRTC-012 is faster than the previous HRTI product in the clearing process for immuno-staining. e.g., 1mm depth sample, the previous HRTI product takes 6 days, but the new HRTC-012 takes 1 day.



Simple clearing process





#### Non Harmful

Preservation of cell structure
No organic solvent based solution
Easy to control without the



### Reproducible

dedicated equipment

# 3D analysis for the deep tissue sample without slide section



Deep tissue sample



Tissue Clearing & ImmunoStaining



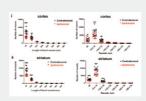
Cleared sample



**Imaging** 

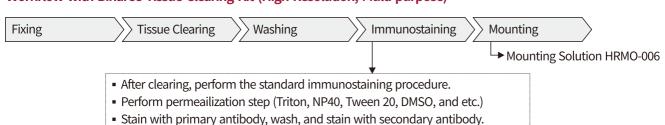


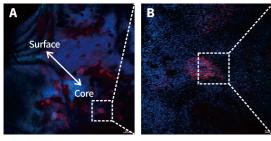
3D deconvolution



Quantitative analysis with location information

# Workflow with Binaree Tissue Clearing Kit (High Resolution, Multi purpose)





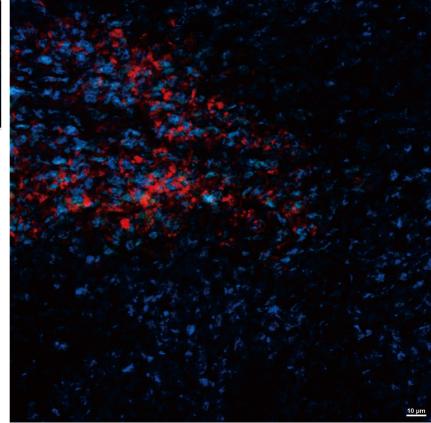
#### **Breast Cancer Tissue Clearing**

Transplantation of 4T1 cell line (2X10<sup>6</sup>/100 μℓ/ head) to mouse induced growth of breast cancer. The 500 um thickness of breast cancer tissue were cleared using Binaree Tissue Clearing Kit (HRTC-012). And then, it stain ed with DAPI, SytoX and TiY.

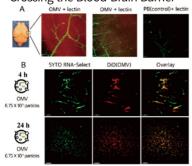
- A, 3D reconstruction of CLSM images of breast cancer tissue.
- B-C, the high-magnification images of cleared cancer tissue reveal fine structure at marked position.

DAPI: blue/nuclear, SytoX: green/nuclear,

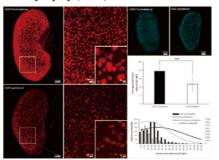
TiY: red/tumor initiating cell probe



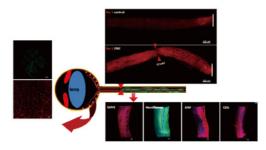
Crossing the Blood-Brain Barrier



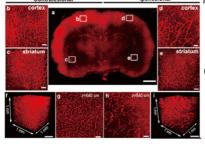
Kidney injury (UUO)

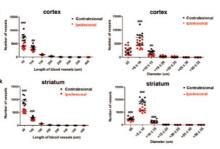


Optic nerve crush

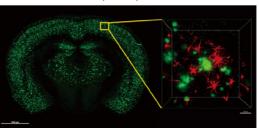


Ischemic stroke (MCAO)





Alzheimer's disease (5xFAD)



#### **Catalog number & components**

HRTC-012 Binaree® Tissue Clearing™ Kit

Tissue Clearing Solution A 30 ml, Tissue Clearing Solution B 60 ml

HRMO-006 Binaree® Tissue Clearing™ Mounting Solution

Mounting Solution 60 ml

# Sales and Service Contacts

For Further contacts, visit binaree.com

Binaree, Inc.

E-mail: sales@binaree.com Phone: +82-(0)53-939-5012 47 Gyeongdaero17-gil Buk-gu, STE#608 IT Conv. Bldg.(115), Daegu, 41566, Republic of Korea