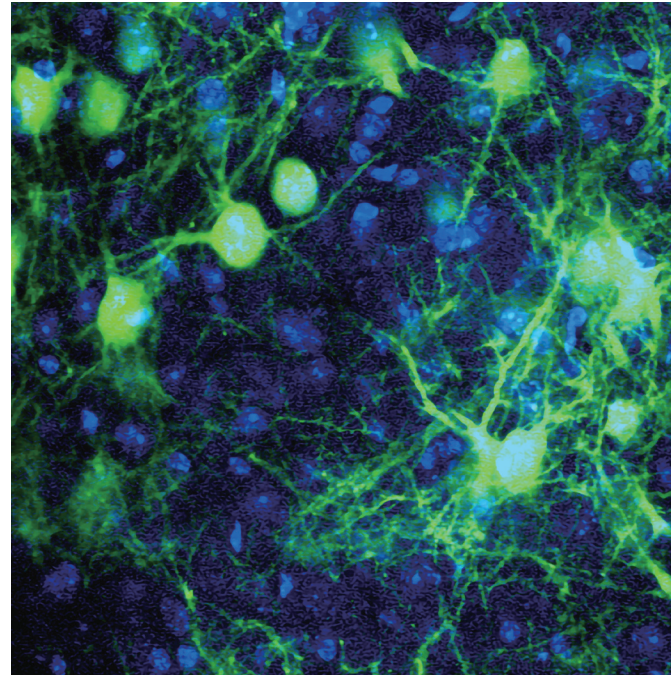
A fluorescence microscopy image showing biological tissue. The image is split into two horizontal panels. The top panel shows a bright green signal (likely representing a specific cell or protein) and a red signal (likely representing another component). The bottom panel shows a similar view but with a more prominent red signal. The text is overlaid on a dark horizontal band in the center.

***In Vivo* Labels
for Optimal *In Vivo* Imaging**

IVIM
TECHNOLOGY

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About IVIM Technology

IVIM Technology, founded in 2017, stands at the forefront of *in vivo* intravital microscopy. We have quickly gained global acclaim, serving leading researchers from prestigious institutions such as Harvard University, Johns Hopkins All Children's Hospital, Sanofi, University of Massachusetts, Seoul National University Hospital, Korea University College of Medicine, Huazhong University of Science and Technology, and Wuhan University.

Beyond offering the world's most advanced and compact intravital microscopy systems, we provide a range of specialized fixation adjuncts and labeled antibodies designed for precise research applications.

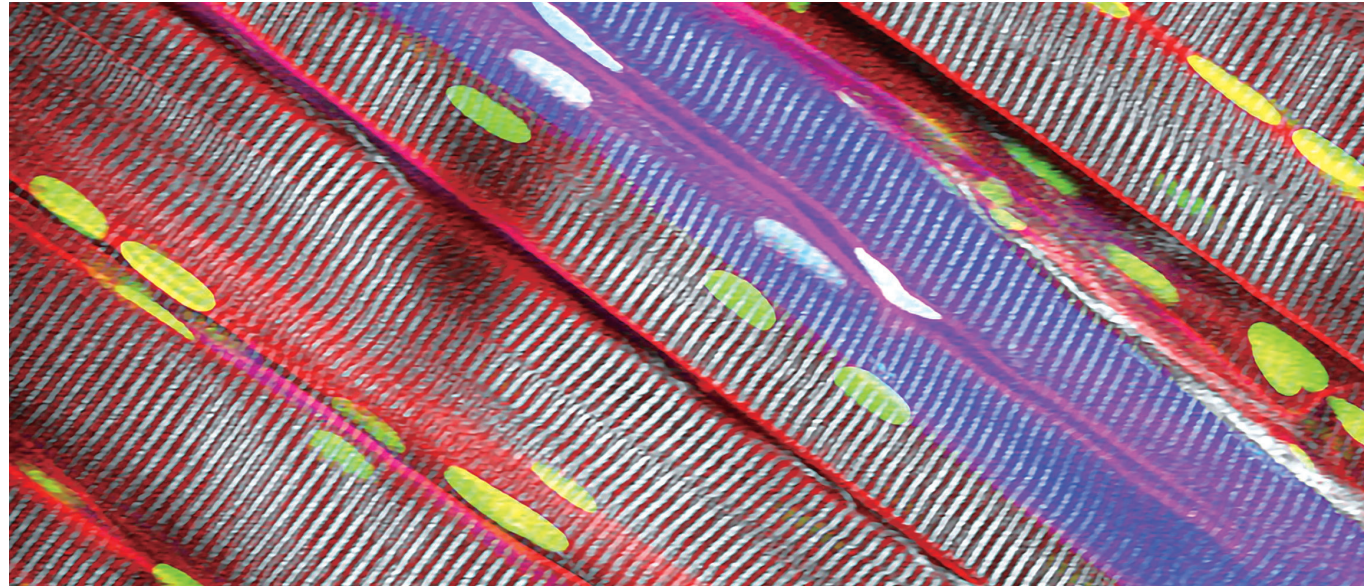
Driven by our mission and vision, IVIM Technology is dedicated to becoming the leading provider of intravital microscopy solutions, with a strong emphasis on quality and ease of use.

For more information, visit www.ivimtech.com.

IVIM Technology operates globally.



IVI Tag™ - *In Vivo* Labels



IVI Tag™ is an *in vivo* reagent that tracks cellular mechanisms and tissue proteins in living animal organs by binding to them specifically. Developed with IVIM Technology's advanced fluorescence tagging, it surpasses traditional antigen-antibody methods by precisely expressing fluorophores *in vivo*. It is optimized for accurate evaluation of biological efficacy, with no dilution, no handling error, and no fluorescence signal loss.

About the Wavelength

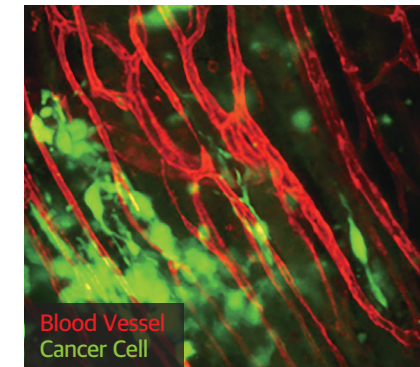
Wavelength (Ex./Em.) (nm)			
406/445	495/519	554/565	651/667

IVIM's intravital microscopy (IVM) series is equipped with four channels, allowing IVI Tag™ to be utilized with four different wavelengths for simultaneous *in vivo* imaging in four distinct colors. Additionally, the system's capability to capture autofluorescence enables the observation of up to five different elements concurrently.

IVI Tag™ is a versatile product compatible with other confocal and two-photon microscope brands, broadening its range of applications. It supports various target combinations, facilitating precise *in vivo* imaging of specific organs or tissues. By standardizing fluorescent labeling agents and dyes, IVI Tag™ ensures clearer and more accurate multi-color imaging results.

Introduction of *In Vivo* Labels

01 IVI Tag™ for Endothelial Cell Labeling



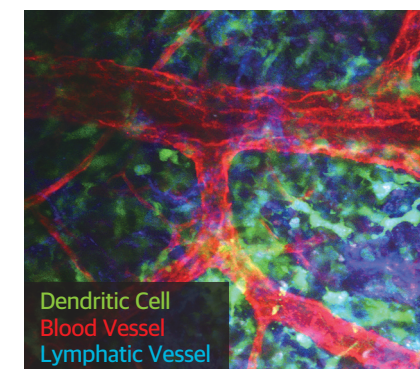
IVI Tag™ anti-CD31

Target: Vascular endothelial cell

CD31 is a member of the immunoglobulin superfamily, that mediates cell-to-cell adhesion. CD31 is expressed constitutively on the surface of adult and embryonic endothelial cells.

IVI Tag™ anti-CD31		
Cat. No.	Ex.	Em.
IVI™-991-0001	406	445
IVI™-991-0002	495	519
IVI™-991-0003	554	565
IVI™-991-0004	651	667

02 IVI Tag™ for Lymphatic Vessel Labeling



IVI Tag™ anti-LYVE-1

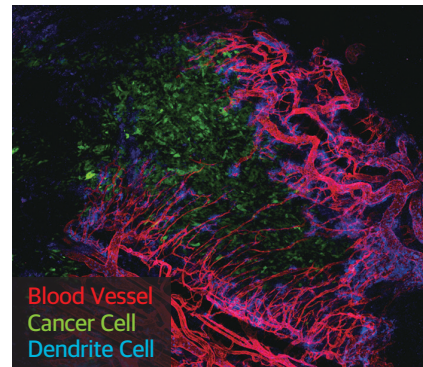
Target: Lymphatics

Lymphatic vessel endothelial hyaluronan (HA) receptor-1 (LYVE-1) is found in the extracellular matrix of most animal tissues and in body fluids. LYVE-1 is primarily expressed on both the luminal and abluminal surfaces of lymphatic vessels.

IVI Tag™ anti-LYVE-1		
Cat. No.	Ex.	Em.
IVI™-991-0005	406	445
IVI™-991-0006	495	519
IVI™-991-0007	554	565
IVI™-991-0008	651	667

Introduction of *In Vivo* Labels

03 IVI Tag™ for Immune Cell Labeling

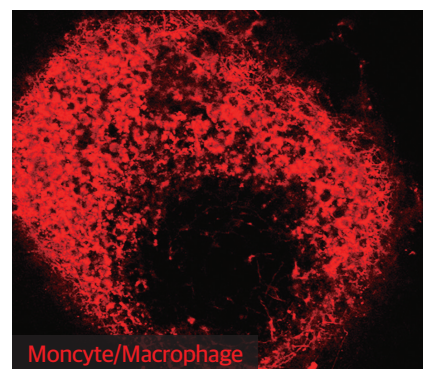


IVI Tag™ anti-CD11b

Target: Dendritic cell

IVI Tag™ anti-CD11b		
Cat. No.	Ex.	Em.
IVI™-991-0009	406	445
IVI™-991-0010	495	519
IVI™-991-0011	554	565
IVI™-991-0012	651	667

CD11b serves as the alpha chain of the heterodimeric Mac-1 integrin (CD11b/CD18, $\alpha M\beta 2$). Mac-1 is expressed at varying levels on granulocytes, macrophages, myeloid-derived dendritic cells, natural killer cells, microglia, and B-1 B lymphocytes.

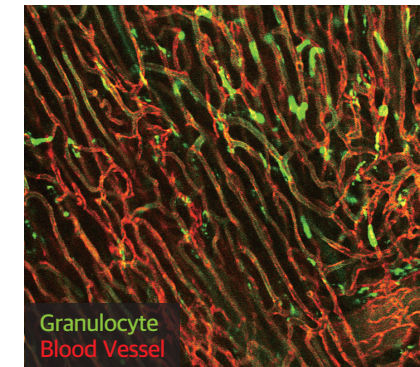


IVI Tag™ anti-Ly6C

Target: Monocyte, Macrophage

IVI Tag™ anti-Ly6C		
Cat. No.	Ex.	Em.
IVI™-991-0025	406	445
IVI™-991-0026	495	519
IVI™-991-0027	554	565
IVI™-991-0028	651	667

The AL-21 monoclonal antibody specifically binds to a non-polymorphic determinant of Ly-6C, a found on some monocyte/macrophage populations, granulocytes, endothelial cells, plasma cells, and thymocyte, NK-cell, and T-subsets.

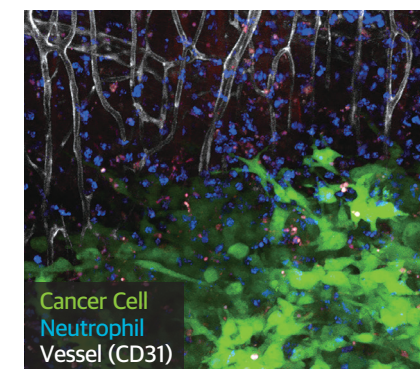


IVI Tag™ anti-Gr-1 (Ly6G/Ly6C)

Target: Granulocyte

IVI Tag™ anti-Gr-1 (Ly6G/Ly6C)		
Cat. No.	Ex.	Em.
IVI™-991-0017	406	445
IVI™-991-0018	495	519
IVI™-991-0019	554	565
IVI™-991-0020	651	667

The RB6-8C5 monoclonal antibody recognizes a common epitope on Ly-6G and Ly-6C, previously known as the myeloid differentiation antigen Gr-1. In the heart, the level of antigen expression is directly correlated with granulocyte differentiation and maturation.



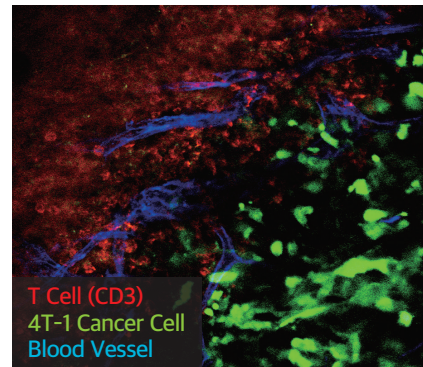
IVI Tag™ anti-LY6G

Target: Neutrophil

IVI Tag™ anti-Ly6G		
Cat. No.	Ex.	Em.
IVI™-991-0021	406	445
IVI™-991-0022	495	519
IVI™-991-0023	554	565
IVI™-991-0024	651	667

The 1A8 monoclonal antibody specifically binds to Ly-6G, a 21-25-kDa GPI-anchored protein. In the bone marrow, Ly6G is expressed on the majority of the largest cells, predominantly granulocytes.

Introduction of *In Vivo* Labels

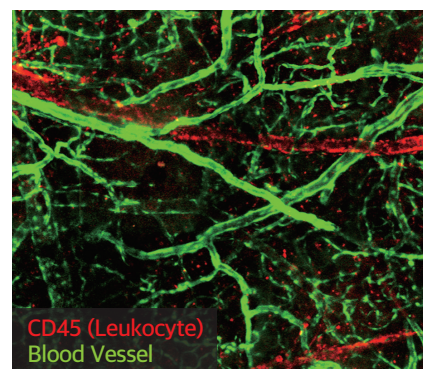


IVI Tag™ Purified anti-mouse CD3

Target: T cell

IVI Tag™ Purified anti-mouse CD3		
Cat. No.	Ex.	Em.
IVI™-991-0045	406	445
IVI™-991-0046	495	519
IVI™-991-0047	554	565
IVI™-991-0048	651	667

CD3, also known as T3, is a member of the Ig superfamily and primarily expressed on T cells, NK-T cells, and at different levels on thymocytes during T cell differentiation.

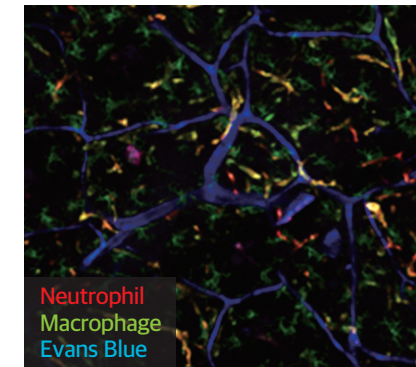


IVI Tag™ anti-CD45

Target: Leukocyte

IVI Tag™ anti-CD45		
Cat. No.	Ex.	Em.
IVI™-991-0029	406	445
IVI™-991-0030	495	519
IVI™-991-0031	554	565
IVI™-991-0032	651	667

The 30-F11 clone reacts with all isoforms and both alloantigens of CD45, found on hematopoietic stem cells and all hematopoietic-origin cells. CD45, a transmembrane glycoprotein, is highly expressed on the cell surface, distinguishing leukocytes from non-hematopoietic cells.



IVI Tag™ anti-F4/80

Target: Macrophage

IVITag™ anti-F4/80		
Cat. No.	Ex.	Em.
IVI™-991-0053	406	445
IVI™-991-0054	495	519
IVI™-991-0055	554	565
IVI™-991-0056	651	667

The A3-1 monoclonal antibody recognizes the mouse F4/80 antigen. It is expressed on the surface of granulocytes and a wide range of mature tissue macrophages, including Kupffer cells, splenic red pulp macrophages, microglia, gut lamina propria macrophages, and Langerhans cells.



IVI Tag™ Recombinant anti-mannose receptor CD206

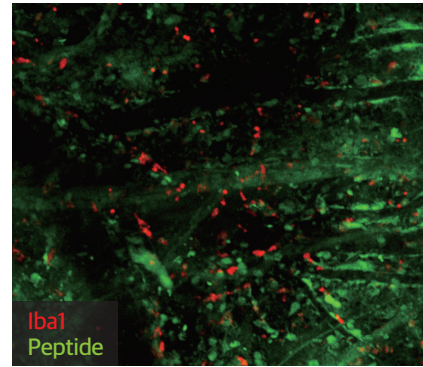
Target: Anti-inflammatory response (Macrophage Type 2)

IVI Tag™ Recombinant anti-mannose receptor CD206		
Cat. No.	Ex.	Em.
IVI™-991-0049	406	445
IVI™-991-0050	495	519
IVI™-991-0051	554	565
IVI™-991-0052	651	667

The Mannose Receptor, also known as CD206, is a type I membrane receptor that mediates the endocytosis of glycoproteins by macrophages.

Introduction of *In Vivo* Labels

04 IVI Tag™ for Alzheimer's Disease Protein Labeling

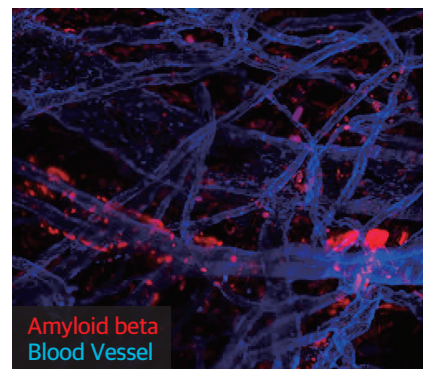


IVI Tag™ Alf-1/Iba1

Target: Macrophage

IVI Tag™ Alf-1/Iba1		
Cat. No.	Ex.	Em.
IVI™-991-0041	406	445
IVI™-991-0042	495	519
IVI™-991-0043	554	565
IVI™-991-0044	651	667

Allograft inflammatory factor (AIF-1) or ionized calcium-binding adapter molecule 1 (Iba1) is a cytosolic actin binding protein containing a calcium binding domain (EF-hand) and inducible by cytokines and IFN-gamma. AIF-1 was first cloned from rat and human cardiac allografts and macrophage cell lines.

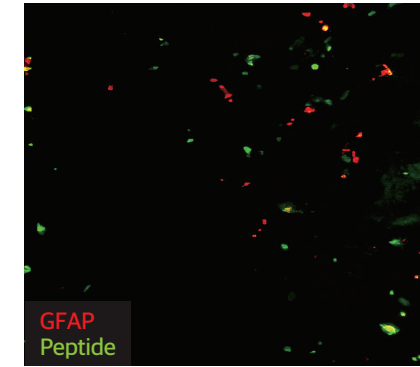


IVI Tag™ beta Amyloid (MOAB-2)

Target: Alzheimer's Disease related protein

IVI Tag™ beta Amyloid (MOAB-2)		
Cat. No.	Ex.	Em.
IVI™-991-0037	406	445
IVI™-991-0038	495	519
IVI™-991-0039	554	565
IVI™-991-0040	651	667

Amyloid beta (A β or Abeta), formed by cleaving amyloid precursor protein (APP) with β and γ -secretases, is believed to contribute to Alzheimer's disease pathogenesis.

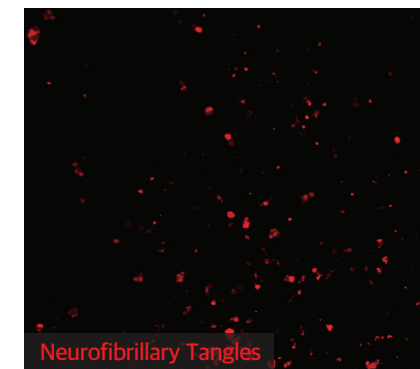


IVI Tag™ anti-GFAP

Target: Astrocyte

IVI Tag™ anti-GFAP		
Cat. No.	Ex.	Em.
IVI™-991-0057	406	445
IVI™-991-0058	495	519
IVI™-991-0059	554	565
IVI™-991-0060	651	667

Glia fibrillary acidic protein (GFAP) is expressed in the CNS in astrocytes. It is involved in cell structure and movement, in cell communication and in the functioning of the blood brain barrier (BBB).



IVI Tag™ anti-Tau

Target: Alzheimer's Disease related protein

IVI Tag™ anti-Tau		
Cat. No.	Ex.	Em.
IVI™-991-0061	406	445
IVI™-991-0062	495	519
IVI™-991-0063	554	565
IVI™-991-0064	651	667

Neurofibrillary tangles associated with Alzheimer's disease consist primarily of a protein called tau.

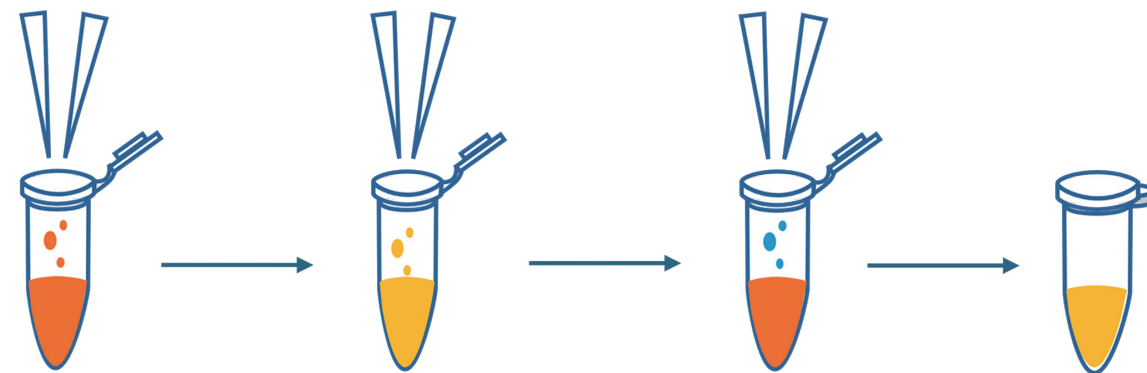
IVI Tag™ - DIY *In Vivo* Labeling Kits

Introducing the IVI Tag™ DIY *In Vivo* Labeling Kits—an advanced technology for tagging fluorescence to target molecules such as exosomes, peptides, and chemical drugs. This innovative solution enables rapid *in vivo* tracking within the organs of living animals. Developed from IVIM Technology's cutting-edge fluorescence tagging technology, these kits allow even beginners to easily and precisely customize and label targets. Unlike traditional antigen-antibody conjugation methods, IVI Tag™ accurately targets and expresses fluorophores at specific locations *in vivo*, making it an ideal tool for evaluating biological efficacy and providing clear, accurate imaging results.

[Kit Components]

Compound	Component	Concentration	Amount
A	Stabilization solution	7.5%	13µl
B	IVI fluorophore Dye	10 mg/ml	30 µg
C	Conjugation assisting substance	≥ 99.7%	1.5 ml

[*In Vivo* Label Preparation Steps]



pH Adjustment

Add desired antibody and adjust pH using compound A

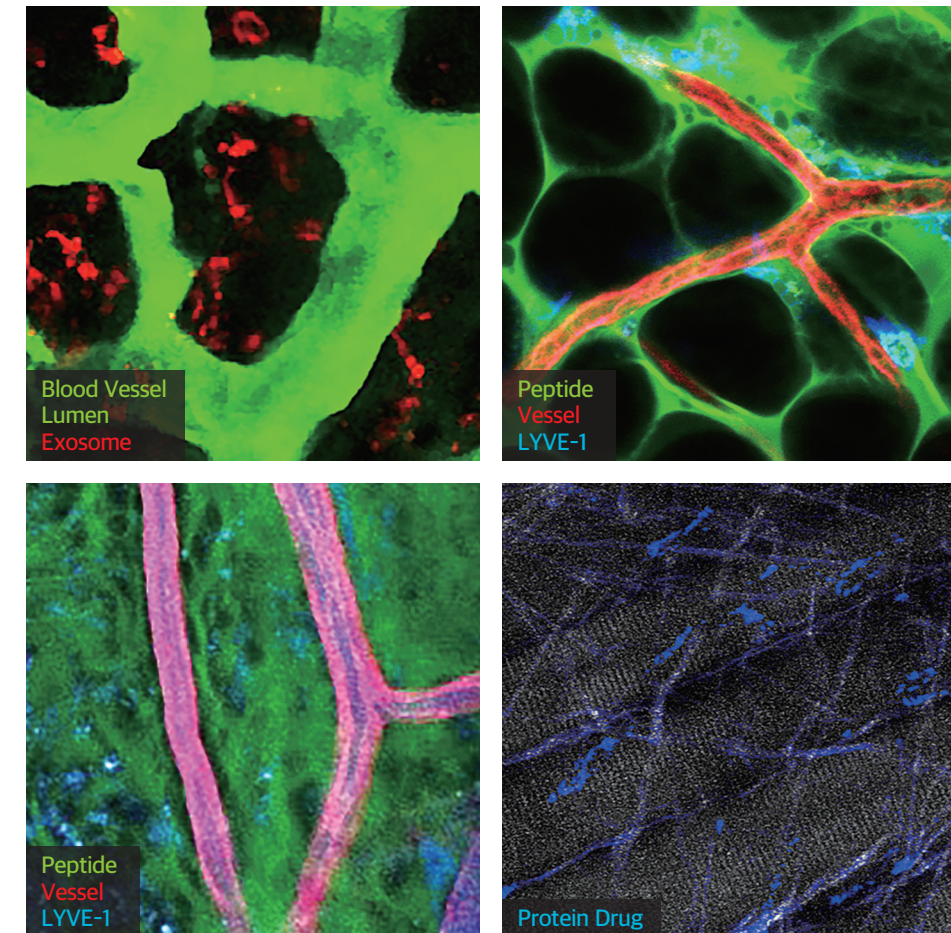
Conjugation

Add compound B to the mixed solution and refrigerate overnight

Purification

Purify the mix using compound C and centrifuge

***In vivo* label is ready to use.**

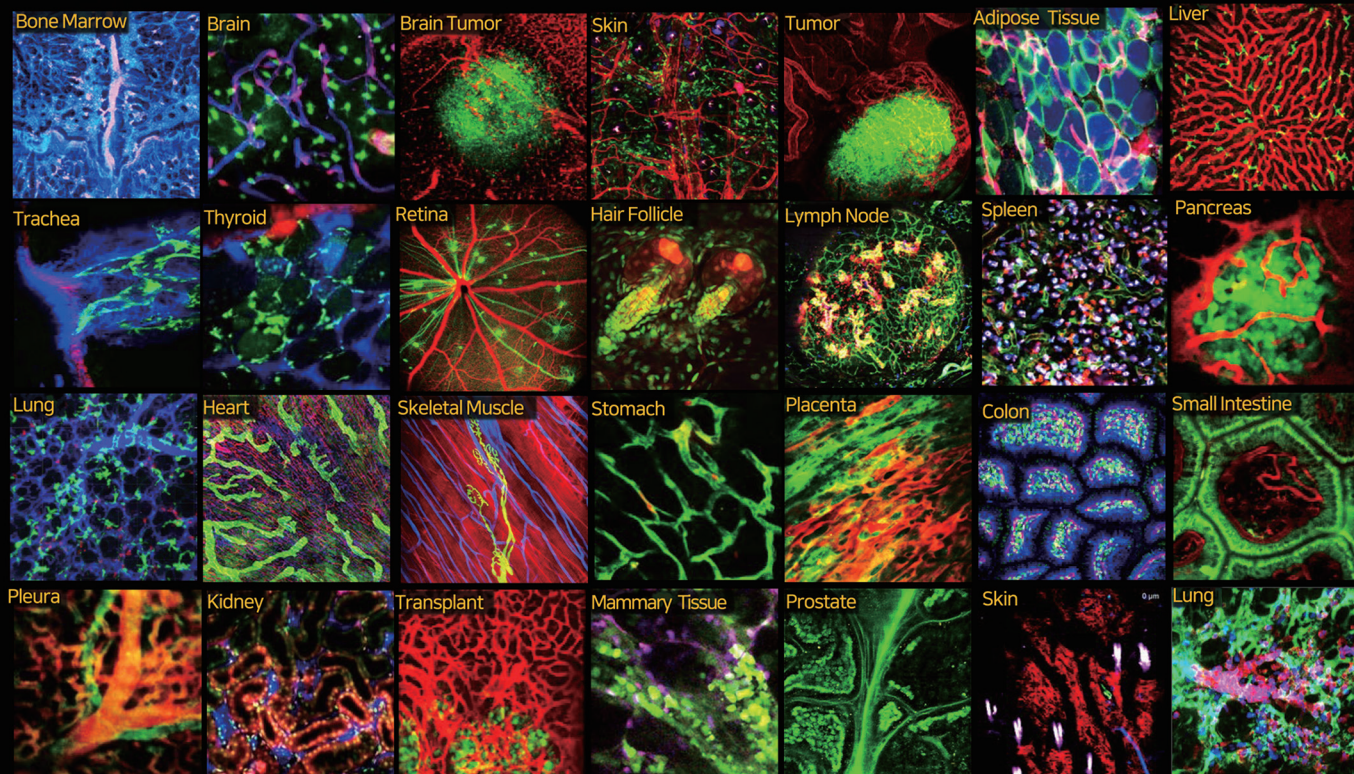


IVI Tag™ - DIY *In Vivo* Labeling Kits Use

The IVI Tag™ DIY *In Vivo* Labeling Kits enable fluorescent tagging of target sites or drugs in live mice, allowing for detailed observation under an intravital microscope. Researchers can conjugate specific antibodies with fluorescent dyes, facilitating precise and dynamic real-time imaging of biological processes.

This kit enhances high-resolution *in vivo* imaging, supporting advanced studies on cellular interactions, disease progression, and therapeutic efficacy. It provides valuable insights into complex biological systems, deepening our understanding of their underlying mechanisms.

QUALITY CAN BE IMAGED...

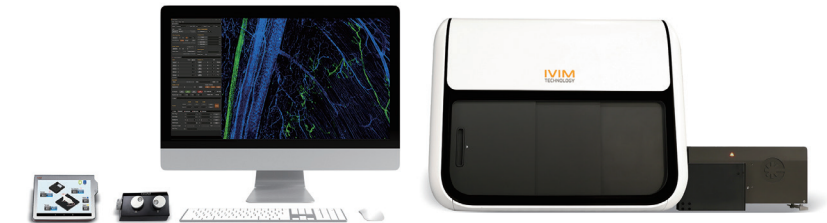


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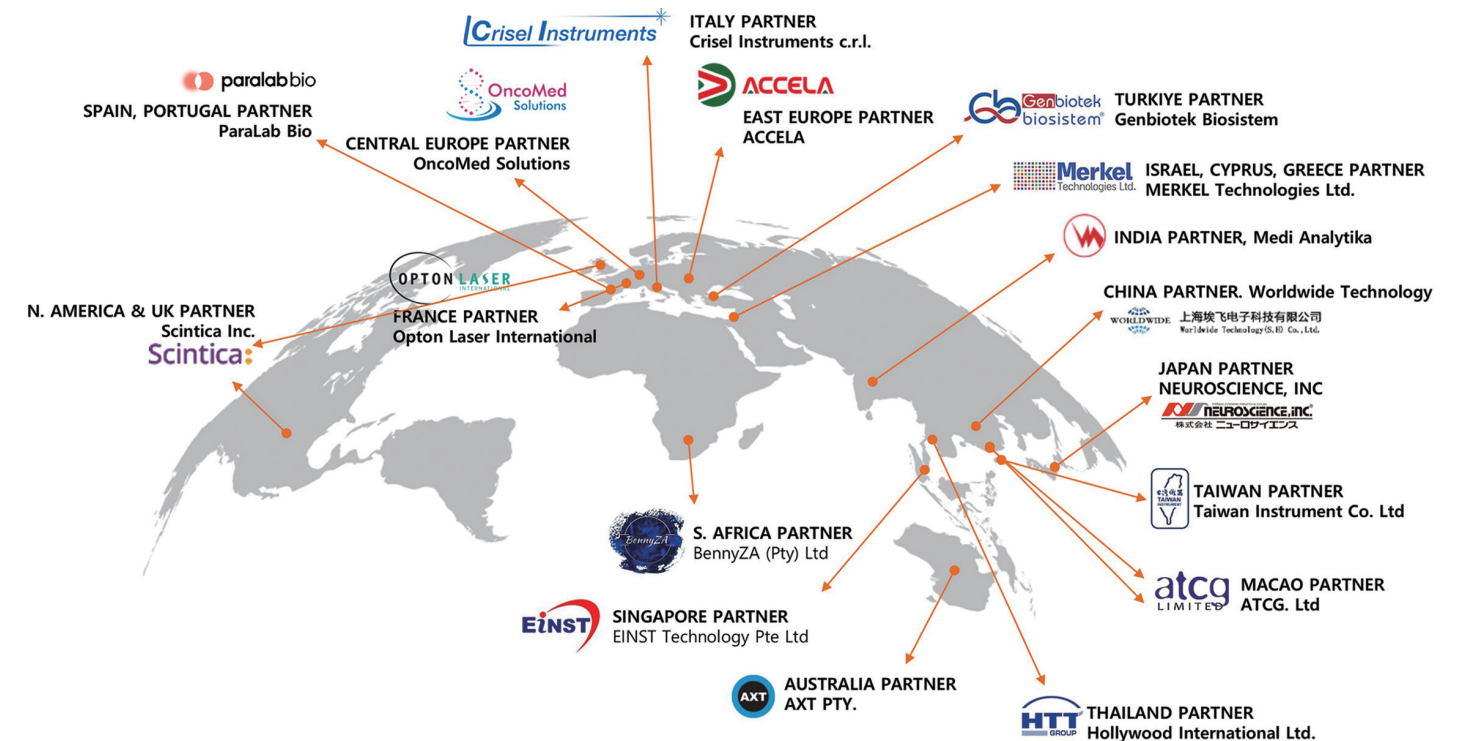
Contact Us!

HQ #B-415, Daedeok BizCenter, 17, Techno 4-ro, Yuseong-gu, Daejeon, 34013, Korea
 Sales Office #A-1305, Hyundai Knowledge Industry Center, 11, Beobwon-ro 11-gil, Songpa-gu, Seoul, 05836, Korea

Webpage www.ivimtech.com
 Email information@ivimtech.com
 TEL +82-2-431-7450
 FAX +82-2-3400-0450

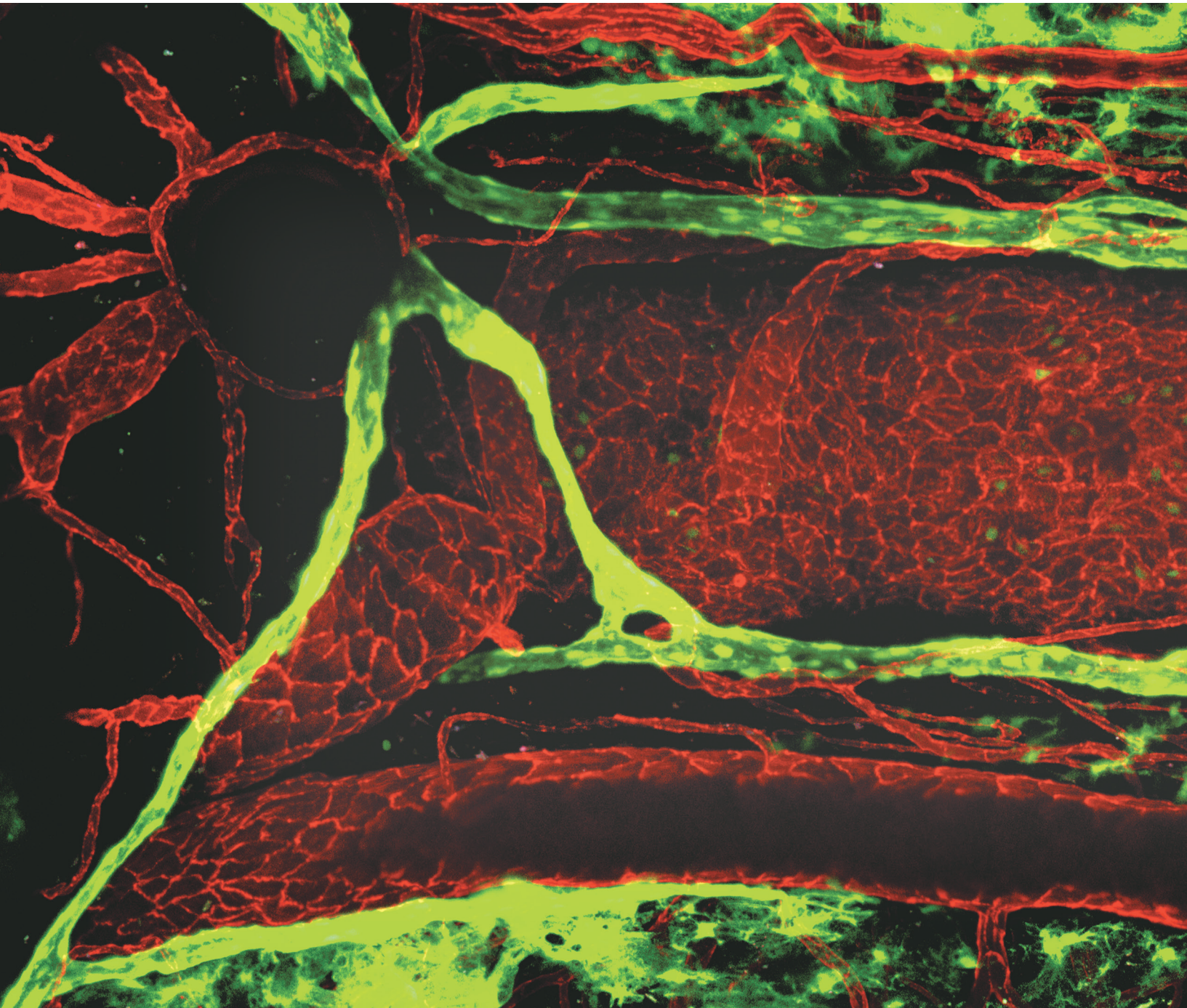


IVIM Technology Operating Locations



IVIM TECHNOLOGY

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HQ #B-415, Daedeok BizCenter, 17, Techno 4-ro, Yuseong-gu, Daejeon, 34013, Korea
Sales Office #A-1305, Hyundai Knowledge Industry Center, 11, Beobwon-ro 11-gil, Songpa-gu,
Seoul, 05836, Korea

Webpage www.ivimtech.com | Contact information@ivimtech.com
TEL +82-2-431-7450 | FAX +82-2-3400-0450