# Find the Ideal Imaging Chamber for Your Application

## Immunofluorescence

<table>
<thead>
<tr>
<th>Chamber Type</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 Well</td>
<td>Removable silicone chambers for cell culture and immunofluorescence, suitable for upright and inverted microscopy and long-term storage</td>
</tr>
<tr>
<td>8 Well</td>
<td></td>
</tr>
<tr>
<td>12 Well Chamber, removable</td>
<td></td>
</tr>
<tr>
<td>μ-Slide VI</td>
<td>Slides with 6 parallel channels providing ideal optical conditions for immunofluorescence, available with different channel heights and coatings; with glass or ibidi Polymer Coverslip bottom</td>
</tr>
<tr>
<td>μ-Slide VI</td>
<td></td>
</tr>
<tr>
<td>μ-Slide VI</td>
<td></td>
</tr>
</tbody>
</table>

## Wound Healing Migration

<table>
<thead>
<tr>
<th>Culture-Insert</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td>2 Well</td>
<td>Silicone inserts with a defined cell-free gap for wound healing, migration, 2D invasion assays, and co-cultivation of cells; available as individual inserts in a μ-Dish or as 25 pieces in a transport dish for self-insertion</td>
</tr>
<tr>
<td>3 Well</td>
<td></td>
</tr>
<tr>
<td>4 Well</td>
<td></td>
</tr>
<tr>
<td>Culture-Insert 24</td>
<td>The complete solution for high throughput wound healing and migration experiments</td>
</tr>
</tbody>
</table>

## Flow Assays

<table>
<thead>
<tr>
<th>Flow Channel Slides</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>μ-Slide Luer</td>
<td>Flow channel slides, available with different heights and coatings</td>
</tr>
<tr>
<td>μ-Slide VI</td>
<td>Slides with 6 channels for parallel flow assays with minimal amount of cells, medium, and supplements, available with different channel heights and coatings; with glass or ibidi Polymer Coverslip bottom</td>
</tr>
<tr>
<td>μ-Slide VI</td>
<td></td>
</tr>
<tr>
<td>μ-Slide VI</td>
<td></td>
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</tbody>
</table>

## Chemotaxis

<table>
<thead>
<tr>
<th>Chamber Type</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>μ-Slide Chemotaxis</td>
<td>Specialized geometry for assays with fast or slow migrating cells in 2D culture or 3D gel matrices</td>
</tr>
<tr>
<td>μ-Plate 24 Well</td>
<td>Plates with a flat, clear bottom for brilliant images in high throughput cell microscopy applications</td>
</tr>
<tr>
<td>μ-Plate 96 Well</td>
<td></td>
</tr>
<tr>
<td>μ-Plate 384 Well</td>
<td></td>
</tr>
</tbody>
</table>

## Angiogenesis

<table>
<thead>
<tr>
<th>Chamber Type</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>μ-Slide Angiogenesis</td>
<td>A slide optimized for tube formation assays, 3D cell culture and immunofluorescence staining, also available in a 96 well format for high throughput applications</td>
</tr>
<tr>
<td>μ-Plate Angiogenesis 96 Well</td>
<td></td>
</tr>
</tbody>
</table>

Order your **free sample** and test ibidi’s microscopy chambers with your experiments.
Learn the Principles of the ibidi Imaging Chambers

Pick the Optimal Size and Geometry for Your Application
- Chamber slides
- Dishes
- Channel slides
- Specialized geometry

Choose From a Broad Range of Coatings for Excellent Cell Growth
- ibiTreat (tissue culture treated surface)
- Hydrophobic, uncoated
- Collagen IV
- Poly-L-Lysine

Proven Mechanical and Chemical Stability
ibidi Polymer Coverslip #1.5 or glass bottom #1.5H for high resolution microscopy

Use the ibidi Imaging Chambers in Every Lab

μ-Slide 2 Well | 4 Well | 8 Well
Chambered coverslips that combine optimal conditions for cell culture, immunofluorescence and high-resolution microscopy; available with an ibidi Polymer Coverslip or a glass bottom

μ-Dish Family
Petri dishes for cell culture and high end microscopy; available with an ibidi Polymer Coverslip or a glass bottom

Collagen Type I, rat tail
A ready-to-use rat tail collagen solution for the preparation of 3D collagen gels; storage at ~20°C for well-defined quality and reproducibility

Get inspired by successful ibidi customers and explore our huge reference database.
Establish *in Vivo*-Like Conditions on Every Inverted Microscope

*In Vivo*-Like Conditions:  
Fast and precise control of temperature, humidity, CO₂, and O₂

*Easy Installation and Use:*  
Quick mounting on the microscope, just like a multiwell plate

*Microscope Compatibility:*  
Fits to inverted microscopes that have a plate holder or a frame

Create Physiologic Conditions With the ibidi Stage Top Incubators

- Accurate and homogeneous heating
- Constant humidity to prevent evaporation
- Precise control and smooth change of CO₂ and O₂ levels

Contact ibidi for a **free demo** of the ibidi Stage Top Incubation System.

Experimental Examples

**Tube Formation / Angiogenesis Assays**  
HUVEC cells on Matrigel™ in a μ-Slide Angiogenesis.

**2D and 3D Chemotaxis Assays**  
Migration of a dendritic cell in a chemotactic gradient.

**Wound Healing and Migration Assays**  
Closure of a cell-free gap in an ibidi Culture-Insert.

**Oxygen Depletion**  
Spheroid with living (green) and apoptotic cells (red) due to oxygen depletion.
ibidi Stage Top Incubation System for Slides and Dishes

Compatible with all inverted microscopes that have a multiwell plate holder

ibidi Stage Top Incubation System for Multiwell Plates

Compatible with all inverted microscopes that have a K-Frame stage

* Not part of the ibidi Stage Top Incubation System. Please contact us for information on suitable microscopes.
Perform your experiment of choice: Wound healing, migration, 2D invasion assays, or co-cultivation of cells.

Benefit from extremely high reproducibility due to the defined size of the Culture-Inserts’ cell-free gap.

Save time with a quick and easy experimental setup and automated image analysis.

ibidi Offers the Complete Solution for Your Wound Healing or Migration Assay:

**Sample Preparation**

Setup your assay of choice in an easy and highly reproducible manner.

**Culture-Insert**

2 Well | 3 Well | 4 Well

Silicone insert with a defined cell-free gap.

**Live Cell Imaging**

Measure wound closure and migration under physiological conditions in real time.

**ibidi Stage Top Incubation System**

The ibidi solution for creating and maintaining a physiological environment.

**Data Analysis**

Speed up your experimental workflow with quick and reliable automated image analysis.

**Wound Healing ACAS Image Analysis Software**

Create your free account and get 15 free analysis jobs per month.
Chemotaxis Assays
Precisely Analyze Directed Cell Migration Behavior in 2D or 3D

- Investigate the migration of slow migrating cells (e.g., cancer cells) and fast migrating cells (e.g., immune cells) in a 2D or 3D environment
- Keep a linear and stable chemotactic gradient for over 48 hours
- Reduce your costs by using minimal amounts of medium and supplements

ibidi Offers the Complete Solution for Your Chemotaxis Assay:

**Sample Preparation**
Create a precisely defined, stable chemotactic gradient in a reproducible environment

**Live Cell Imaging**
Measure chemotaxis under physiological conditions in real time

**Cell Tracking**
Quantify cell movements between frames of a temporal stack

**Data Analysis**
Visualize migrational paths and analyze various parameters

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**μ-Slide Chemotaxis**
Specialized geometry and brilliant optical features

ibidi Stage Top Incubation System
The ibidi solution for creating and maintaining a physiological environment

ImageJ Manual Tracking Plugin
Download the free manual tracking plugin here: ibidi.com/manual-tracking

ibidi Chemotaxis and Migration Tool
Download the free chemotaxis analysis software here: ibidi.com/chemotaxis-tool
• Investigate the behavior of endothelial cells using tube formation assays, sprouting assays, 3D cell culture, and immunofluorescence analysis
• Benefit from brilliant microscopic visualization without meniscus formation—all cells in one optical plane
• Reduce your costs by minimizing the amounts of Matrigel, medium, and supplements needed

ibidi Offers the Complete Solution for Your Tube Formation Assay:

Sample Preparation
Seed your cells on minimal amounts of Matrigel and take advantage of the “well-in-a-well” feature

μ-Slide Angiogenesis
Due to the “well-in-a-well” technology, the amount of Matrigel is reduced to 10 μl per well and no meniscus is formed

Live Cell Imaging
Get brilliant microscopic images in real time under physiological conditions—without meniscus

ibidi Stage Top Incubation System
The ibidi solution for creating and maintaining a physiological environment

Data Analysis
Speed up your experimental workflow with quick and reliable automated image analysis

Create your free account and get 15 free analysis jobs per month.
• Mimic in vivo-like conditions for cells that are physiologically exposed to shear stress (e.g., endothelial cells and epithelial cells)
• Establish long-term cell culture under defined flow conditions—days to even weeks—and perform various downstream analyses
• Reduce your costs by using minimal amounts of medium and supplements

ibidi Offers the Complete Solution for Your Flow Assay:

Sample Preparation
Setup your flow assay of choice and choose from our broad portfolio of channel slides

Flow Conditioning
Apply unidirectional, oscillatory, or pulsatile flow

Staining and Microscopy
Image and stain cells directly in the channel slide

Downstream Analysis
Easily analyze your cells with, e.g., Western Blot, qRT-PCR, or FACS

Flow Assays
Simulate Physiologic Systems Under Various Conditions

μ-Slide I Luer
Channel slides with a variety of heights and coatings for different shear stress ranges

The ibidi Pump System
A perfusion system to cultivate cells under flow for the simulation of blood vessels

Experimental Examples
Rolling and adhesion assays
Defined
Immunofluorescence Assays
Get Brilliant Stainings With Reduced Time and Material

- Simplify your staining procedure—perform all steps in one single slide and reduce your experimental steps
- Reduce your costs—use only small numbers of cells and a low amount of medium and antibodies
- Get brilliant microscopic images due to the slides’ optical specifications

All-in-One Chambers

Cell Seeding → Cultivation → Fixation & Staining → Imaging

- μ-Slide VI\textsuperscript{0.5}
  - Glass Bottom
- μ-Slide VI\textsuperscript{0.4}
- μ-Slide VI\textsuperscript{0.1}
- μ-Slide 2 Well
- μ-Slide 4 Well
- μ-Slide 8 Well
- μ-Dish Family

Removable Chamber Slides

Cell Seeding → Cultivation → Chamber Removal → Fixation & Staining → Mounting & Imaging → Storage

3 Well | 8 Well | 12 Well Chamber, removable
Removeable silicone chambers for cell culture and immunofluorescence, suitable for upright and inverted microscopy

Experimental Examples

Cell line Madin-Darby canine kidney (MDCK) cultured in μ-Slide VI\textsuperscript{0.4}.

Human umbilical vein endothelial cells (HUVEC) cultured under flow conditions in μ-Slide I\textsuperscript{0.4} Luer.
Fuse-It—Next Generation Transfection

- Rapidly and directly transfer molecules into the cytoplasm without any interference by endocytosis or lysosomal degradation
- Retain the highest viability, even in sensitive and difficult-to-transfect cells (e.g., primary neurons, keratinocytes, endothelial cells, or stem cells)

LifeAct—Visualization of F-Actin in Living Cells

LifeAct Plasmid
Get brilliant F-actin staining in living cells

LifeAct Adenoviral Vectors
Visualize F-actin in difficult-to-transfect cells

LifeAct Lentiviral Vectors
Generate stable cell lines for F-actin visualization

LifeAct mRNA
Rapid expression for quick cytoskeleton studies

LifeAct Protein
Rapidly visualize F-actin in living cells

LifeAct Stable Cell Line
For direct use in cell-based assays

Order your free Fuse-It sample now.