

■ IncuCyte® System

실시간 세포영상분석기

제품 용도

- 실시간으로 세포 이미지를 분석합니다.
- 다양한 세포 연구를 지원합니다.
- 세포 분석을 위한 Total Solution을 제공합니다.
- 최적화된 시약, 세포주 등 다양한 관련 제품을 제공합니다.

제품 특징

- 장시간 살아있는 세포를 연구하기 위해, Live-Cell에 최적화된 시약으로 의미 있는 데이터 도출
- 검증된 실험 프로토콜과 직관적이고 편리한 소프트웨어로 생산성 향상
- 다양한 형광 시약의 조합을 통해, 여러 샘플로부터 풍부한 데이터 확보 (Immune Cell Killing Assay 등)
- Incucyte만의 다양한 기술을 통해 세포 이동 연구의 자동화 및 시각화 연구 지원

제품 장점

- Simple, Flexible Assay
검증된 프로토콜을 제공하여, 실험 최적화 및 문제해결 과정을 최소화합니다.
- Non-perturbing Live-Cell Reagents
Incucyte 시약은 Live-Cell 실험에 최적화하여, 세포 샘플에 대한 영향과 부작용을 최소화합니다.
- Acquire Images from Adherent & Non-adherent Cell-Types
부착세포와 비부착세포 모두에서 Label-Free 또는 형광 실험이 가능합니다.
- Analyze in Real-Time
세포의 상태, 이동 및 기능에 대한 실시간 정량 분석을 제공합니다.
- Multi-parametric Analysis
Incucyte 시약의 형광 조합을 통해, 다양한 실험법과 분석법을 제공합니다.
- Compatible with over 600 Vessels
96-well 또는 384-well 플레이트 뿐만 아니라, Chamber Slide, Flask, Dish 등 다양한 세포 배양 환경에서의 연구를 지원합니다.

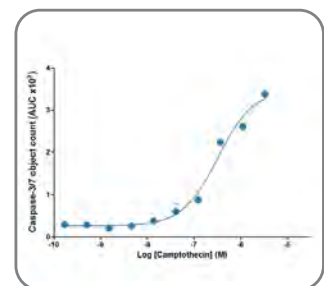
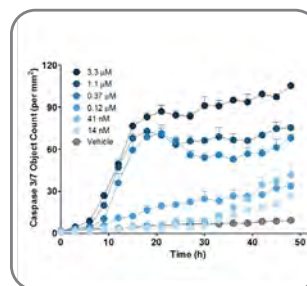
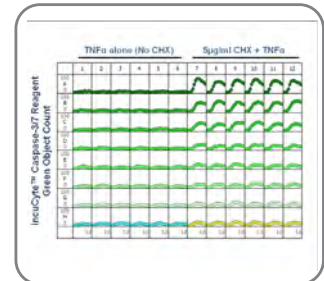
■ 세포 연구패턴을 변화시키는 IncuCyte® S3



■ IncuCyte® Application

■ Cell Health and Proliferation

- Cell Counting
- Viability
- Apoptosis
- Cytotoxicity
- Cell Cycle
- ATP Metabolism
- Mitochondrial Membrane Potential



■ Cell Function

- Immune Cell Killing
- Antibody Internalization
- Phagocytosis
- Netosis
- Neuronal Activity
- Live-Cell Immunocytochemistry

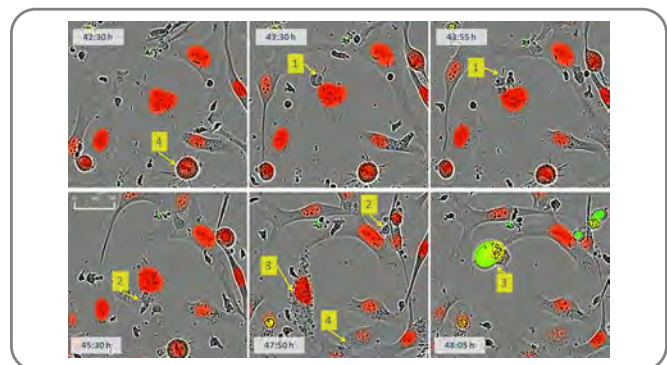


Figure. Visualize immune cell/tumor cell interplay using Incucyte Immune Cell Killing Assays.

■ Cell Movement and Morphology

- Scratch Wound
 - Migration
 - Invasion
- Chemotaxis
- Immune Cell Activation
- Neurite Outgrowth
- Spheroid Invasion

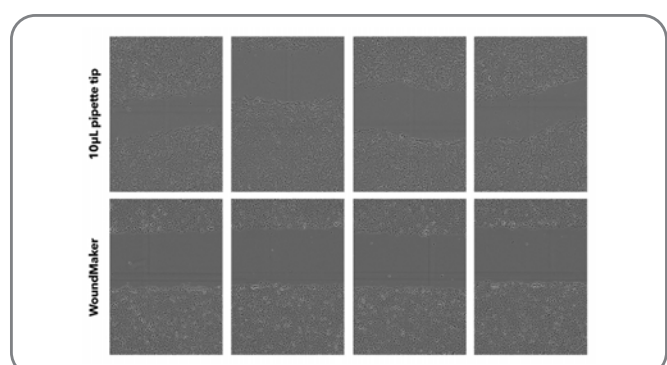


Figure. HT-1080 monolayer scratch comparison

■ Ordering Information



Incucyte Live-Cell Analysis System

Instrument

| Model | Description |
|-------|--|
| 4816 | Incucyte® SX5 HD 3CLR System Package, includes instrumentation, controller and base software |
| 4647 | Incucyte® S3 HD 2CLR System Package, includes instrumentation, controller and base software |
| 4788 | Incucyte® SX1 HD 2CLR System Package, includes instrumentation, controller and base software |

Selection Guide

| System | Multi-User | Objectives | Fluorescent Channels | Vessel Trays | Microplates |
|--------|------------|-----------------------------------|----------------------------|--------------|-------------|
| SX5 | Yes | 4x, 10x, 20x, automated turret | 5 (up to 3 simultaneously) | 3 | up to 6 |
| S3 | Yes | 4x, 10x, 20x, automated turret | 2 | 2 | up to 6 |
| SX1 | No | 4x, 10x, 20x, single position use | 2 | 2 | up to 2 |

Software

| Order No. | Description |
|-----------|---|
| 9600-0010 | Incucyte® Neurotrack Software Analysis Module |
| 9600-0012 | Incucyte® Scratchwound Software Analysis Module |
| 9600-0015 | Incucyte® Chemtoaxis Software Analysis Module |
| 9600-0019 | Incucyte® Spheroid Software Analysis Module |
| 9600-0031 | Incucyte® Cell-by-Cell Software Analysis Module |
| BA-04867 | Incucyte® Advanced Classification Software Module (Cell-by-Cell Add-on) |
| 9600-0032 | Incucyte® Neuronal Activity Software Analysis Module |
| 9600-0033 | Incucyte® ATP Software Analysis Module |
| 9600-0034 | Incucyte® Organoid Software Analysis Module |



Incucyte™ WoundMaker

Scratch Wound Cell Migration & Invasion / Chemotaxis

| Order No. | Description |
|-----------|--|
| 4563 | IncuCyte® 96-well WoundMaker Tool |
| BA-04858 | Incucyte® Cell Migration Kit |
| 4444 | Incucyte® Cell Invasion Accessories |
| BA-04857 | Incucyte® Imagelock 96-well Plates (50 plates) |
| BA-04856 | Incucyte® Imagelock 96-well Plates (10 plates) |
| 4648 | Incucyte® Clearview 96-well Plates (10 plates) |
| 4599 | Incucyte® Clearview 96-well Plates (50 plates) |

■ Reagent

| Order No. | Description | Color | Quantity | Compatibility |
|-----------|-------------|-------|----------|---------------|
|-----------|-------------|-------|----------|---------------|

Proliferation & Cell Cycle

Count viable cells over hours, days or weeks with Incucyte® Nuclight live-cell labeling reagents. Gain additional insight by multiplexing with apoptosis and cytotoxic readouts or exploring co-cultures. Further characterize growth or probe drug mechanisms of action in real-time with the Incucyte® Cell Cycle Lentivirus

| | | | | |
|--------------|---|---|------------------------------------|---|
| 4624 4475 | Incucyte® Nuclight Green Lentivirus (puro) | ■ | One vial: 0.2ml One vial: 0.6ml | SX1, S3, SX5 |
| 4626 4477 | Incucyte® Nuclight Green Lentivirus (bleo) | ■ | One vial: 0.2ml One vial: 0.6ml | SX1, S3, SX5 |
| 4625 4476 | Incucyte® Nuclight Red Lentivirus (puro) | ■ | One vial: 0.2ml One vial: 0.6ml | SX1, S3, SX5 (Green/Red Optical Module) |
| 4627 4478 | Incucyte® Nuclight Red Lentivirus (bleo) | ■ | One vial: 0.2ml One vial: 0.6ml | SX1, S3, SX5 (Green/Red Optical Module) |
| 4771 | Incucyte® Nuclight Orange Lentivirus (puro) | ■ | One vial: 0.2ml | SX5 |
| 4805 | Incucyte® Nuclight NIR Lentivirus (puro) | ■ | One vial: 0.2ml | SX5 |
| 4717 | Incucyte® Nuclight Rapid Red Dye | ■ | One vial: 50µl | SX1, S3, SX5 (Green/Red Optical Module) |
| 4804 | Incucyte® Nuclight Rapid NIR Dye | ■ | One vial: 50µl | SX5 |
| 4779 | Incucyte® Cell Cycle Green/Red Lentivirus (puro) | ■ | One vial: 0.2ml | SX1, S3, SX5 (Green/Red Optical Module) |
| 4809 | Incucyte® Cell Cycle Green/Orange Lentivirus (puro) | ■ | One vial: 0.2ml | SX5 |

Apoptosis & Cytotoxicity

Visualize and measure apoptotic cell death and cytotoxicity using the Incucyte portfolio of no-wash mix and read reagents

| | | | | |
|------|--|---|----------------------|---|
| 4642 | Incucyte® Annexin V Green Reagent For Apoptosis | ■ | One vial: 100 tests | SX1, S3, SX5 |
| 4641 | Incucyte® Annexin V Red Reagent For Apoptosis | ■ | One vial: 100 tests | SX1, S3, SX5 (Green/Red Optical Module) |
| 4768 | Incucyte® Annexin V NIR Reagent for Apoptosis | ■ | One vial: 100 tests | SX5 |
| 4759 | Incucyte® AnnexinV Orange Reagent for Apoptosis | ■ | One vial: 100 tests | SX5 |
| 4440 | Incucyte® Caspase-3/7 Green Reagent for Apoptosis (1 Vial) | ■ | One vial: 20µl | SX1, S3, SX5 |
| 4704 | Incucyte® Caspase-3/7 Red Reagent for Apoptosis | ■ | One vial: 20µl | SX1, S3, SX5 (Green/Red Optical Module) |
| 4633 | IncuCyte™ Cytotox Green Reagent | ■ | Five vials: 5µl each | SX1, S3, SX5 |
| 4632 | IncuCyte™ Cytotox Red Reagent | ■ | Five vials: 5µl each | SX1, S3, SX5 (Green/Red Optical Module) |
| 4846 | Incucyte® Cytotox NIR Reagent | ■ | one vial: 100µl | SX5 |




Kinase Activity

| | | | | |
|----------|--|---|-----------------|---|
| BA-04868 | Incucyte® Kinase Akt Green/Red Lentivirus (Puro) | ■ | one vial: 0.2ml | SX1, S3, SX5 (Green/Red Optical Module) |
|----------|--|---|-----------------|---|

Order No. **Description** **Color** **Quantity** **Compatibility**










Metabolism

Reveal changes in cancer cell metabolism in mono- or co-cultures with direct, kinetic measurements of ATP. Quantify mitochondrial membrane potential state via shifts in fluorescence intensity.

| | | | | |
|------|---|---|----------------|------------------|
| 4772 | Incucyte® CytoATP Lentivirus Reagent Kit Incucyte® CytoATP Lentivirus Incucyte® CytoATP Non-binding Control Lentivirus (puro) |  | One kit | SX5 (Metabolism) |
| 4775 | Incucyte® mmP Orange Reagent Kit MMP Orange Reagent FCCP Oligomycin A |  | One kit | SX5 |
| 4776 | Incucyte® Caspase 3/7 Orange Dye for Metabolism |  | One vial: 20µl | SX5 |







Immune Cell Killing, Activation & Proliferation

Make multiplexed measurements of tumor cell death (Annexin V NIR Dye), tumor cell proliferation/viability (Incucyte Nuclight Orange Lentivirus) and immune cell health (Incucyte Cytolight Rapid Green Dye) in the same population of cells overtime

| | | | | |
|------|--------------------------------------|---|---------------------|---|
| 4642 | Incucyte® Annexin V Green Dye |  | One vial: 100 tests | SX1, S3, SX5 |
| 4641 | Incucyte® Annexin V Red Dye |  | One vial: 100 tests | SX1, S3, SX5 (Green/Red Optical Module) |
| 4768 | Incucyte® Annexin V NIR Dye |  | One vial: 100 tests | SX5 |
| 4759 | Incucyte® Annexin V Orange Dye |  | One vial: 100 tests | SX5 |
| 4440 | Incucyte® Caspase-3/7 Green Dye |  | One vial: 20µl | SX1, S3, SX5 |
| 4704 | Incucyte® Caspase-3/7 Red Dye |  | One vial: 20µl | SX1, S3, SX5 (Green/Red Optical Module) |
| 4705 | Incucyte® Cytolight Rapid Green Dye |  | One vial: 15µg | SX1, S3, SX5 |
| 4706 | Incucyte® Cytolight Rapid Red Dye |  | One vial: 50µg | SX1, S3, SX5 (Green/Red Optical Module) |
| 4839 | Incucyte® CytoLight Rapid Orange Dye |  | one vial: 1mg | SX5 |






Antibody Internalization

Perform rapid, kinetic, high throughput assays suitable for antibody screening or therapeutic profiling

| | | | | |
|------|---|---|----------------|---|
| 4722 | Incucyte® Human Fabfluor-pH Red Antibody Labeling Dye |  | One vial: 50µg | SX1, S3, SX5 (Green/Red Optical Module) |
| 4812 | Incucyte® Human Fabfluor-pH Orange Antibody Labeling Dye |  | One vial: 50µg | S3 for Neuroscience, SX5 |
| 4723 | Incucyte® Mouse IgG1 Fabfluor-pH Red Antibody Labeling Dye |  | One vial: 50µg | SX1, S3, SX5 (Green/Red Optical Module) |
| 4750 | Incucyte® Mouse IgG2a Fabfluor-pH Red Antibody Labeling Dye |  | One vial: 50µg | SX1, S3, SX5 (Green/Red Optical Module) |
| 4751 | Incucyte® Mouse IgG2b Fabfluor-pH Red Antibody Labeling Dye |  | One vial: 50µg | SX1, S3, SX5 (Green/Red Optical Module) |
| 4737 | Incucyte® Rat Fabfluor-pH Red Antibody Labeling Dye |  | One vial: 50µg | SX1, S3, SX5 (Green/Red Optical Module) |



Immunocytochemistry

Reveal the dynamics of surface protein expression with a new approach to immunocytochemistry – no washing, no fixing

| | | | | |
|----------|--|---|----------------|---|
| 4745 | Incucyte® Mouse IgG1 Fabfluor-488 Antibody Labeling Dye |  | One vial: 50µg | SX1, S3, SX5 |
| 4743 | Incucyte® Mouse IgG2a Fabfluor-488 Antibody Labeling Dye |  | One vial: 50µg | SX1, S3, SX5 |
| 4744 | Incucyte® Mouse IgG2b Fabfluor-488 Antibody Labeling Dye |  | One vial: 50µg | SX1, S3, SX5 |
| 4844 | Incucyte® Mouse IgG1 Fabfluor-594 Antibody Labeling Dye |  | one vial: 50µg | SX1, S3, SX5 (Green/Red Optical Module) |
| BA-04863 | Incucyte® Mouse IgG2a Fabfluor-594 Antibody Labeling Dye |  | one vial: 50µg | SX1, S3, SX5 (Green/Red Optical Module) |





Neuronal Activity

Record activity from over a thousand cells to study changes in neuronal network activity and connectivity with a novel genetically-encoded fluorescent calcium indicator

| | | | | |
|------|--|---|--------------------|-----|
| 4736 | Incucyte® Neuroburst Orange Lentivirus |  | One vial: 0.2ml | SX5 |
| 4761 | Incucyte® Neuroactive Orange Kit |  | One kit | SX5 |









Neurite Outgrowth: Monoculture & Co-culture

Measure neurite outgrowth and retraction in monoculture or coculture to using neuron-specific live-cell labeling reagents.

| | | | | |
|------|---|---|---|--|
| 4807 | Incucyte® Neurolight Red Lentivirus (Synapsin) |  | Two vials : 0.45ml each | SX1, S3, SX5 (Green/Red Optical Module) |
| 4808 | Incucyte® Neurolight Orange Lentivirus (Synapsin) |  | Two vials : 0.45ml each | |
| 4585 | Incucyte® Neuroprime Red Kit |  | One kit | SX1, S3, SX5 (Green/Red Optical Module) |
| 4760 | Incucyte® Neuroprime Orange Kit |  | One kit | |
| 4753 | Incucyte® rCortical Neurons | N/A | One vial : 2 x 10 ⁶ cells | |
| 4586 | Incucyte® rAstrocytes | N/A | One vial : 2 x 10 ⁶ cells | |



Phagocytosis

Monitor and measure phagocytosis and efferocytosis using highly specific and sensitive labeling reagents, amenable to both adherent and non-adherent cell models

| | | | | |
|------|---|---|---------------|--|
| 4649 | Incucyte® pHrodo® Red Cell Labeling Kit for Phagocytosis |  | One kit | SX1, S3, SX5 (Green/Red Optical Module) |
| 4766 | Incucyte® pHrodo® Orange Cell Labeling Kit for Phagocytosis |  | One kit | SX5 |
| 4615 | Incucyte® pHrodo® Red E. coli Bipoarticles® |  | One vial: 2mg | SX1, S3, SX5 (Green/Red Optical Module) |
| 4616 | Incucyte® pHrodo® Green E. coli Bipoarticles® |  | One vial: 2mg | SX1, S3, SX5 |
| 4617 | Incucyte® pHrodo® Red Zymosan Bipoarticles® |  | One vial: 1mg | SX1, S3, SX5 (Green/Red Optical Module) |
| 4618 | Incucyte® pHrodo® Green Zymosan Bipoarticles® |  | One vial: 1mg | SX1, S3, SX5 |
| 4619 | Incucyte® pHrodo® Red S. aureus Bipoarticles® |  | One vial: 2mg | SX1, S3, SX5 (Green/Red Optical Module) |
| 4620 | Incucyte® pHrodo® Green S. aureus Bipoarticles® |  | One vial: 2mg | SX1, S3, SX5 |

Spheroid

Incucyte® Cytolight live-cell labeling reagents enable real-time measurement of spheroid growth and shrinkage

| | | | | |
|------|---|---|--------------------|--|
| 4481 | Incucyte® Cytolight Green Lentivirus (puro) |  | One vial: 0.6ml | SX1, S3, SX5 |
| 4482 | Incucyte® Cytolight Red Lentivirus (puro) |  | One vial: 0.6ml | SX1, S3, SX5 (Green/Red Optical Module) |