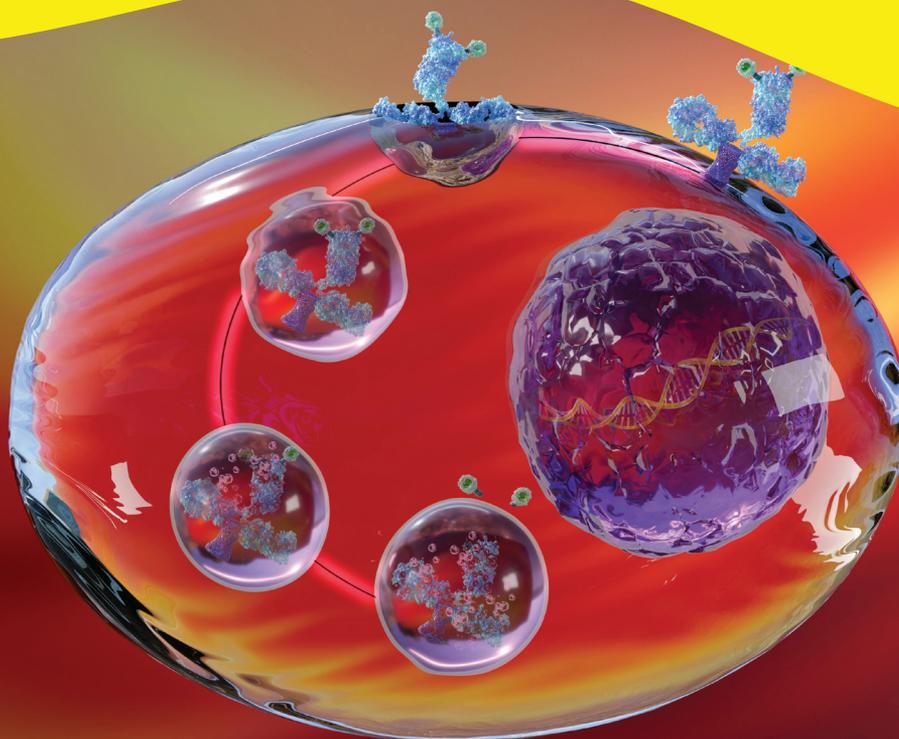


revvity

# pHSense reagents product list

pH-Sensitive reagents for monitoring internalization

January 2026





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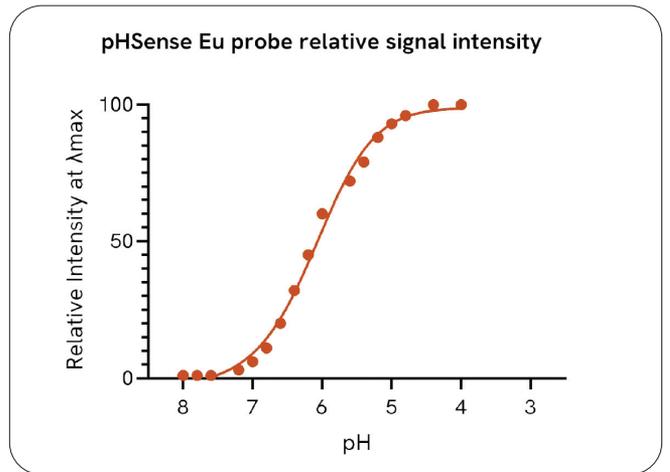
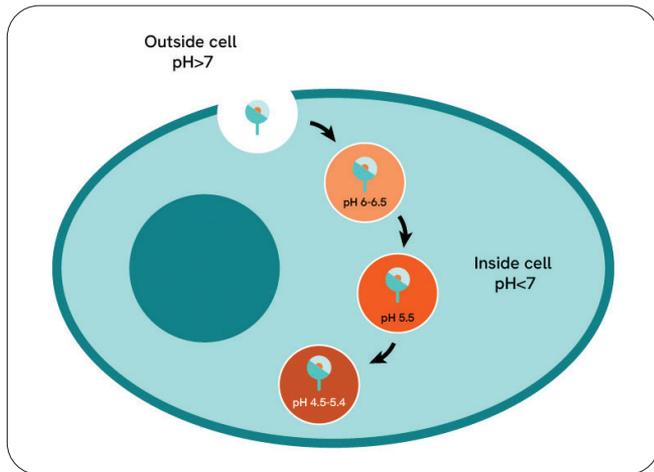
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# Discover pHSense probes

pHSense™ probes are plate reader-compatible reagents with time-resolved fluorescence (TRF) readout, specifically developed to advance cellular internalization studies. Designed for monitoring antibodies, antibody-drug conjugates (ADCs) or receptor internalization, pHSense empowers researchers with a scalable, sensitive, and easy-to-implement solution that streamlines complex cellular assays. This innovative technology reinforces Revvity's commitment to advancing drug discovery workflows. pHSense offers:

- Higher throughput plate-based pH sensitive internalization reagents
- Superior signal-to-background for more reliable pharmacological data
- Versatility across suspension & adherent cells

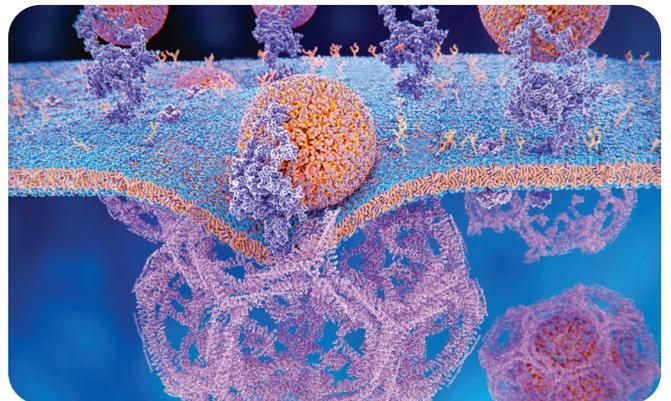


## Supported applications



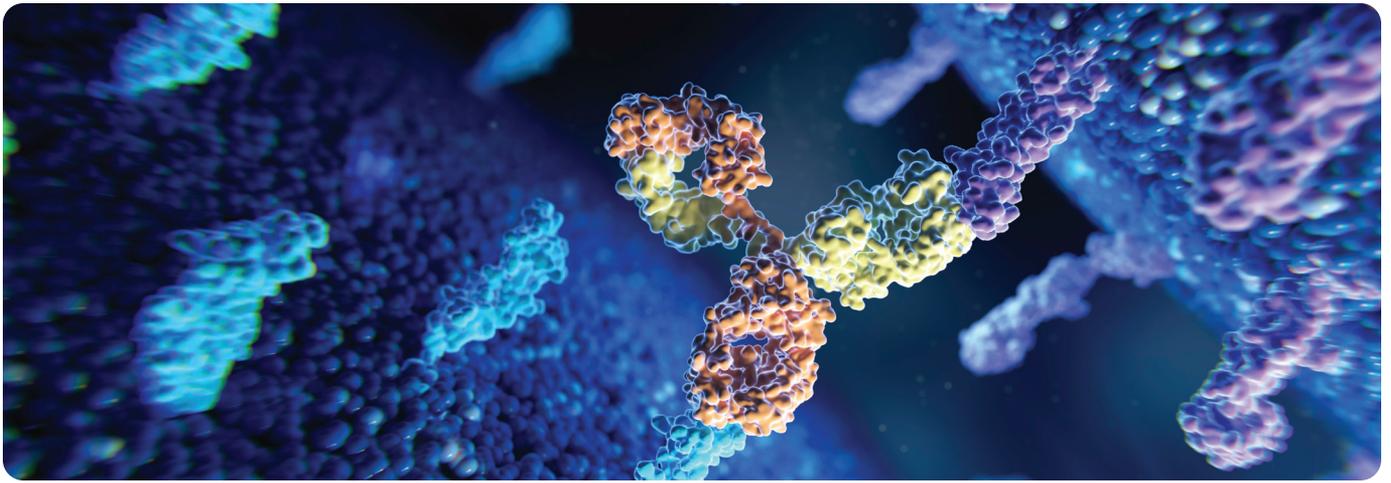
From binding to payload release:  
Quantify every step of ADC internalization

Antibodies and ADC internalization



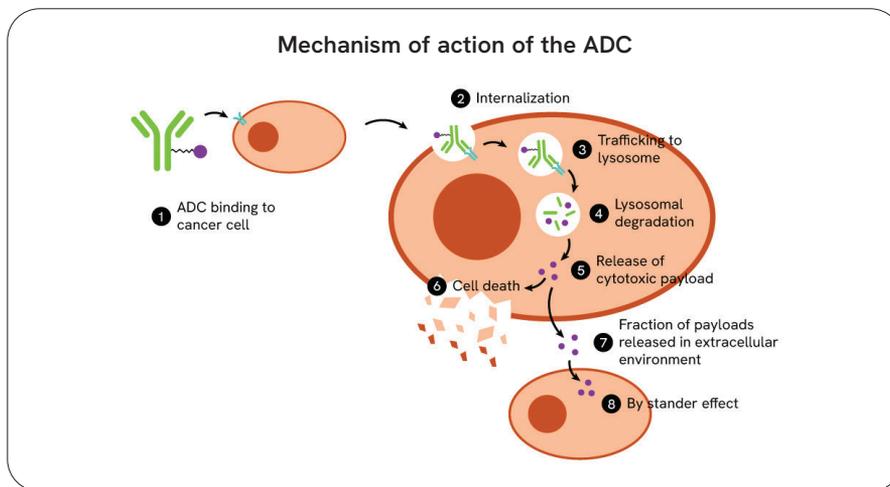
From binding to signaling to internalization:  
Cell-based fluorescence assays for  
complete GPCR characterization

GPCR internalization



## Antibody Drug Conjugate applications

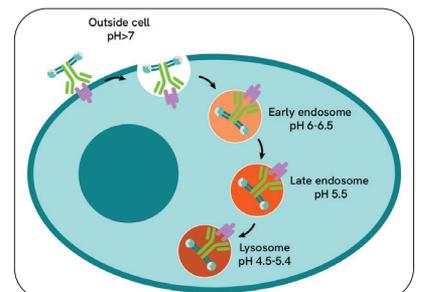
Antibody-drug conjugates (ADCs) represent a transformative class of targeted cancer therapies that combine the specificity of monoclonal antibodies with the potency of cytotoxic drugs. By selectively delivering chemotherapeutic agents to tumor cells while sparing healthy tissue, ADCs offer a promising approach to improving efficacy and reducing systemic toxicity.



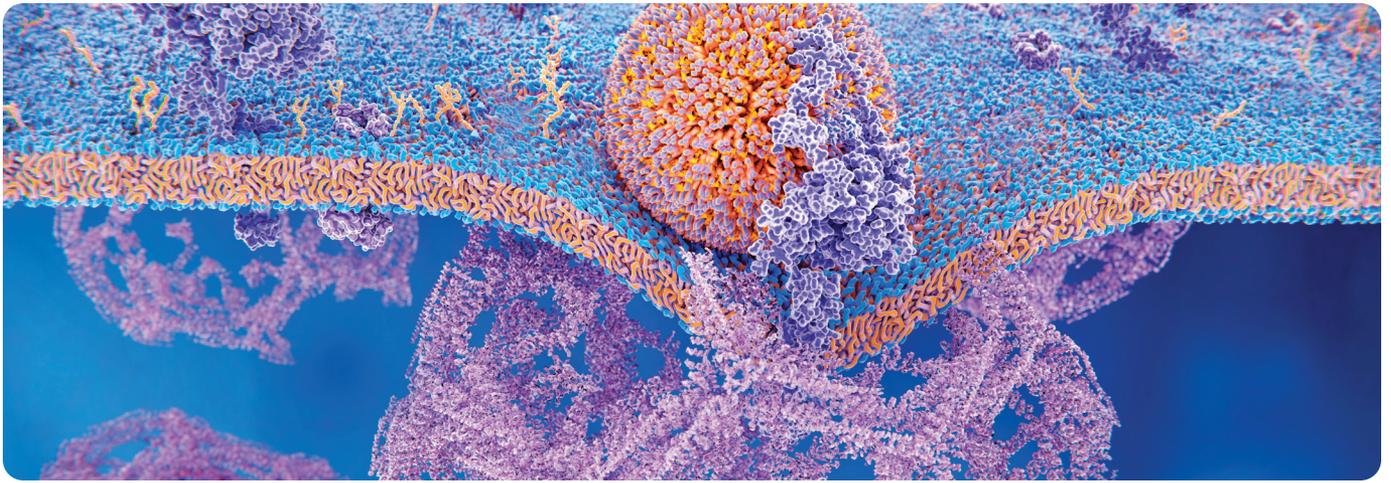
To support the development and optimization of these complex biologics, pHSense™ reagents provide a highly sensitive, no-wash method for monitoring ADC uptake and internalization. Leveraging time-resolved fluorescence (TRF), pHSense assays significantly reduce background noise and enhance signal-to-background ratios, ensuring accurate and reproducible detection of antibody and ADC internalization.

Compatible with standard TR readers such as EnVision®, Nexus™, and Victor Nivo®, pHSense simplifies workflows and boosts throughput—making it an ideal solution for high-sensitivity, high-throughput ADC studies.

| pHSense probes         | 96 wells   | 2 x 96 wells | 10 x 96 wells |
|------------------------|------------|--------------|---------------|
| Eu Fab Anti-Human IgG  | 81HUEU1AA  | 81HUEU1AB    | 81HUEU1AC     |
| Eu Fab Anti-Mouse IgG1 | 81MO1EU1AA | 81MO1EU1AB   | 81MO1EU1AC    |
| Eu Fab Anti-Mouse IgG2 | 81MO2EU1AA | 81MO2EU1AB   | 81MO2EU1AC    |



| Fab fragment anti-species



## GPCR applications

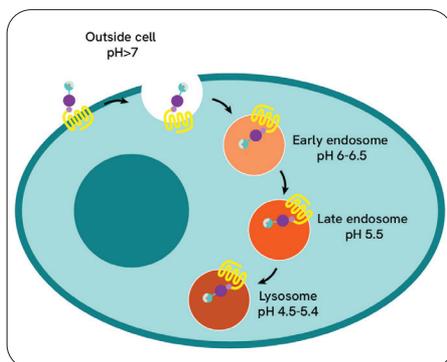
Revvity's pHSense assay offers a robust, plate-reader-based approach for tracking GPCR internalization. Leveraging a pH-sensitive dye, it is finely tuned for kinetic and time-resolved analysis, even at low endogenous expression levels.

It enables rapid, high-throughput data generation using standard plate readers, making it ideal for drug discovery workflows.

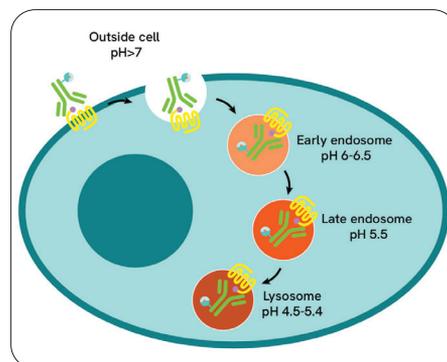
**This technology is particularly valuable in therapeutic areas where GPCR internalization plays a pivotal role:**

- Obesity: Enables precise characterization of multi-agonist candidates.
- Cardiovascular diseases: Targets key receptor families like Angiotensin, Thrombin, and Adrenergic, with strong  $\beta$ -arrestin 1 and 2 expression in cardiac tissues
- Pain and addiction therapies: Supports research on Opioid, Cannabinoid, and Dopamine receptors, which are central to these indications.

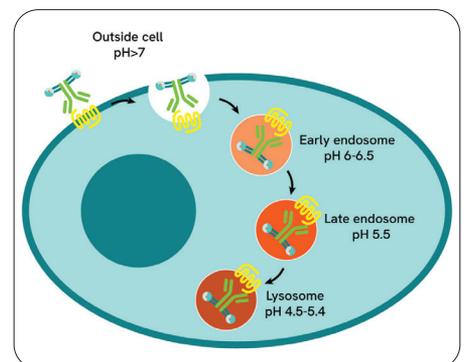
| pHSense probes           | 96 wells   | 2 x 96 wells | 10 x 96 wells |
|--------------------------|------------|--------------|---------------|
| Eu Fab Anti-Human IgG    | 81HUEU1AA  | 81HUEU1AB    | 81HUEU1AC     |
| Eu Fab Anti-Mouse IgG1   | 81MO1EU1AA | 81MO1EU1AB   | 81MO1EU1AC    |
| Eu Fab Anti-Mouse IgG2   | 81MO2EU1AA | 81MO2EU1AB   | 81MO2EU1AC    |
| Eu Anti-FLAG             | 81FL1EU1A  | 81FL1EU1AB   | 81FL1EU1AC    |
| Eu Anti-HA               | 81HAEU1AA  | 81HAEU1AB    | 81HAEU1AC     |
| Eu SNAP Labeling Reagent | 81SNEU1A   | 81SNEU1AB    | 81SNEU1AC     |



| SNAP assay format



| Anti-FLAG / Anti-HA assay format



| Fab fragment anti-species



## Ancillary reagents

### Controls

Antibodies may bind non-specifically, generating background signal, often via the Fc region. Isotype control antibodies help identify these off-target effects. Matched in species and class but lacking antigen specificity, they are essential for assessing non-specific binding and ensuring accurate data interpretation.

|                             | 1 vial      |
|-----------------------------|-------------|
| Human IgG1 Isotype Control  | 81HUIGG1NC  |
| Human IgG4 Isotype Control  | 81HUIGG4NC  |
| Mouse IgG1 Isotype Control  | 81MOIGG1NC  |
| Mouse IgG2a Isotype Control | 81MOIGG2ANC |

### Others

pHSense Boost enhances assay performance by reducing background and increasing assay window, without altering compound pharmacology.

|               | 1 vial    |
|---------------|-----------|
| Boost Reagent | 81BOOSTR1 |

|                               | 96 well    |
|-------------------------------|------------|
| pHSense Eu Reader Control Kit | 82RCLEUPEA |



[www.revvity.com](http://www.revvity.com)

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