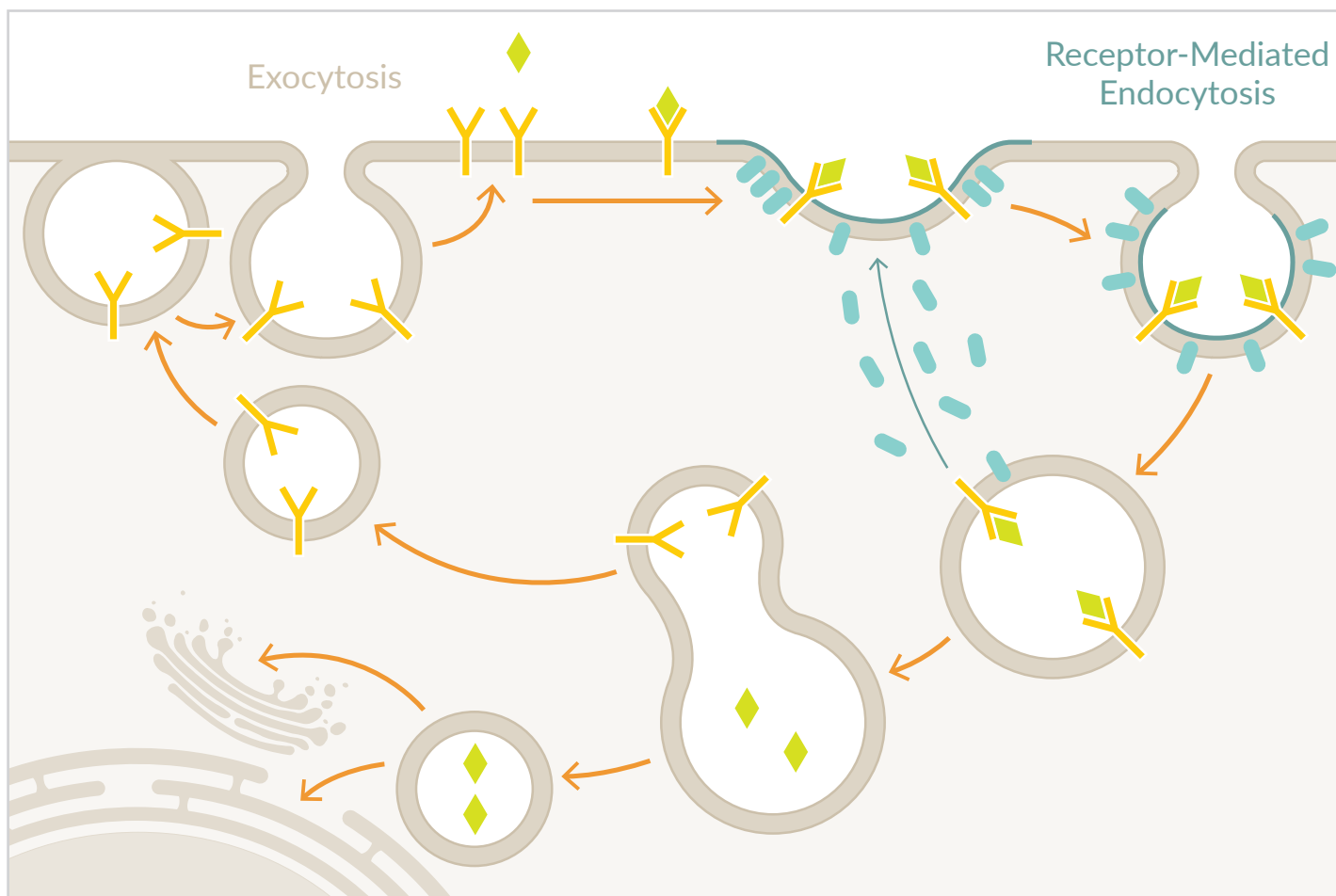


# Receptor-Mediated Endocytosis

Receptor-mediated endocytosis is an endocytotic mechanism in which specific molecules are ingested into the cell through a highly selective receptor-ligand interaction. Receptors on the plasma membrane of the target tissue will specifically bind to ligands on the outside of the cell. Cayman offers a diverse collection of assay kits with fluorescently labeled targets to monitor key receptor-driven events. With multiple fluorescent labels available, these kits have the flexibility to fit your model system.



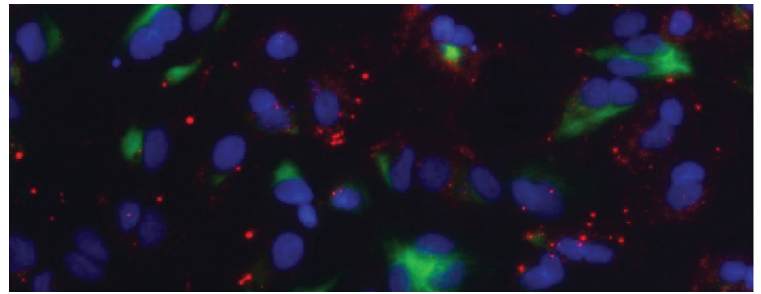
## Endocytosis Assay Kits

Assay Kit	Particle Target	Cell Type(s)	Receptor(s)
LDL Uptake Assay Kits	LDL	hepatocytes	LDLR
	oxidized LDL	macrophages/endothelial cells	CD36/LDLR
Efferocytosis Assay Kit	apoptotic corpses	macrophages	CD36, integrins, TIM4, etc.
Phagocytosis Assay Kits	IgG-coated latex beads	macrophages/monocytes	FcγR
	<i>E. coli</i>	macrophages/neutrophils	SR-A

For more details on our kits to study receptor-mediated endocytosis, continue to the back of this page

## LDL Uptake Assay Kits

- Detect cellular low-density lipoprotein (LDL) or oxidized LDL uptake in cultured cells
- Employs human LDL conjugated to either DyLight™ 488 or DyLight™ 550 or oxidized LDL conjugated to DyLight™ 488 as a fluorescent probe
- Assess by fluorescence microscopy or flow cytometry
- 7-AAD is included in LDL Uptake Flow Cytometry Assay Kit and Oxidized LDL Uptake Assay Kit for live-cell gating

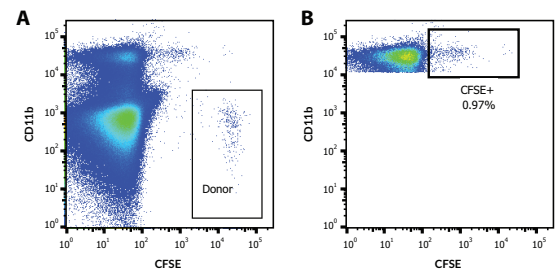


*LDL Uptake Cell-Based Assay Kit - LDL uptake in Huh7 human hepatocytes. LDLR (green), LDL uptake (red), Hoechst-stained nuclei (blue).*

Item No.	Product Name	Particle Target	Color	Cell Type(s)	Receptor(s)
10011125	LDL Uptake Cell-Based Assay Kit	LDL	■ red	hepatocytes	LDLR
601470	LDL Uptake Flow Cytometry Assay Kit	LDL	■ green	hepatocytes	LDLR
601180	Oxidized LDL Uptake Assay Kit	oxidized LDL	■ green	macrophages/endothelial cells	CD36/LDLR

## Efferocytosis Assay Kit

- Visualize effector (phagocytic) cells and bait (apoptotic) cells simultaneously
- Study modulators of efferocytosis, apoptosis, pro-resolving mediators, and cross-presentation
- Includes sufficient reagents to stain  $5 \times 10^7$  effector cells and  $2 \times 10^8$  bait cells



*Apoptotic thymocytes are taken up by myeloid cells in vivo. Cells that have efferocytosed apoptotic cells are CD11b+, CFSEmid (Panel B).*

Item No.	Product Name	Particle Target	Cell Type	Receptors
601770	Efferocytosis Assay Kit	apoptotic corpses	Macrophages	CD36, integrins, TIM4, etc.

## Phagocytosis Assay Kits

- Visualize phagocytosis in 1-4 hours at 37°C
- Assess by flow cytometry or fluorescence microscopy
- Validated in human peripheral blood monocytes, mouse peritoneal macrophages, and phagocytic cell lines

Item No.	Product Name	Particle Target	Color	Cell Types	Receptor
601370	<i>E. coli</i> Phagocytosis Assay Kit	<i>E. coli</i>	■ green	macrophages/neutrophils	SR-A
500290	Phagocytosis Assay Kit (IgG FITC)	IgG-coated latex beads	■ green	macrophages/monocytes	FcγR
600540	Phagocytosis Assay Kit (IgG PE)	IgG-coated latex beads	■ orange	macrophages/monocytes	FcγR
601480	Phagocytosis Assay Kit (IgG-DyLight™ 405)	IgG-coated latex beads	■ blue	macrophages/monocytes	FcγR
601490	Phagocytosis Assay Kit (IgG-DyLight™ 633)	IgG-coated latex beads	■ red	macrophages/monocytes	FcγR

## Lysosome Imaging Reagents

Item No.	Product Name	Particle Target	Excitation Maximum (nm)	Emission Maximum (nm)
25152	LysoBrite™ Blue	lysosomes in live cells	■ 353	■ 442
25154	LysoBrite™ Green	lysosomes in live cells	■ 450	■ 505
25156	LysoBrite™ Orange	lysosomes in live cells	■ 542	■ 556
25153	LysoBrite™ Deep Red	lysosomes in live cells	■ 596	■ 619

View a complete list of lysosome fluorescent probes online at [www.caymanchem.com](http://www.caymanchem.com)