

Product datasheet

# Lysosomal Staining Reagent - NIR - Cytopainter ab176824

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Overview

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<b>Product name</b>	Lysosomal Staining Reagent - NIR - Cytopainter
<b>Sample type</b>	Adherent cells, Suspension cells
<b>Assay type</b>	Cell-based (qualitative)
<b>Species reactivity</b>	<b>Reacts with:</b> Mammals, Other species
<b>Product overview</b>	<p>Lysosomal Staining Reagent - NIR   Cytopainter (ab176824) is one of a series new fluorogenic probes to label lysosomes of live cells. The proprietary lysotropic dye selectively accumulates in lysosomes probably via the lysosome pH gradient. The lysotropic indicator is a hydrophobic compound that easily permeates intact live cells and becomes trapped in lysosomes after it gets into cells. Its fluorescence is significantly enhanced upon entering lysosomes. The resulting fluorescence can be measured using fluorescence imaging, high-content imaging, microplate fluorometry, or flow cytometry. CytoPainter LysoNIR Indicator Reagent (ab176824) has extremely high photostability as well as excellent cellular retention making it useful for a variety of studies, including cell adhesion, chemotaxis, multidrug resistance, cell viability, apoptosis and cytotoxicity. It is suitable for proliferating and non-proliferating cells, and can be used for both suspension and adherent cells.</p>

Review other dyes and kits for [lysosomal staining](#), or the [live cell staining fluorescent dyes guide](#)

<b>Notes</b>	<p>Lysosomes are cellular organelles which contain acid hydrolase enzymes to break up waste materials and cellular debris. Lysosomes digest excess or worn-out organelles, food particles, and engulfed viruses or bacteria. The membrane around a lysosome allows the digestive enzymes to work at pH 4.5. The interior of the lysosomes is acidic (pH 4.5-4.8) compared to the slightly alkaline cytosol (pH 7.2). The lysosome maintains this pH differential by pumping protons from the cytosol across the membrane via proton pumps and chloride ion channels.</p>
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<b>Platform</b>	Fluorescence microscope
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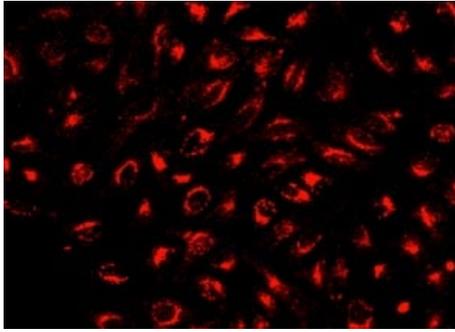
Properties

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<b>Storage instructions</b>	Store at -20°C. Please refer to protocols.
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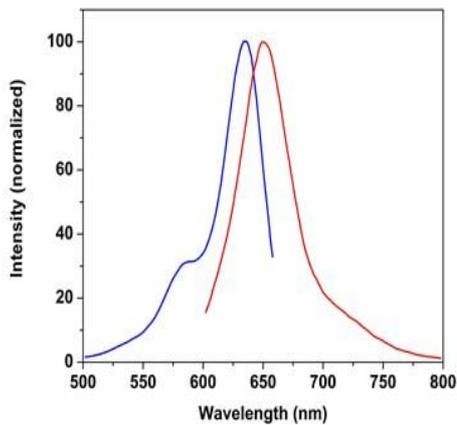
Components	500 tests
CytoPainter LysoNIR Indicator Reagent	1 x 500 tests

## Images



HeLa cells stained with CytoPainter LysoNIR Indicator Reagent (ab176824) in a Costar black 96-well plate.

HeLa cells stained with CytoPainter LysoNIR Indicator Reagent (ab176824)



Excitation and Emission spectra for CytoPainter LysoNIR Indicator Reagent (ab176824).

Excitation and Emission spectra for CytoPainter LysoNIR Indicator Reagent (ab176824)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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