abcam

Product datasheet

Phalloidin-iFluor 647 Reagent ab176759

★★★★★ 5 Abreviews 76 References 4 Images

Overview

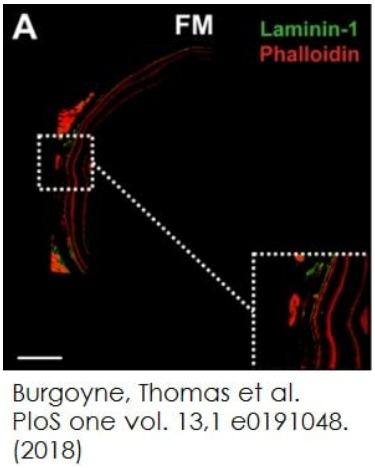
Product name	Phalloidin-iFluor 647 Reagent
Sample type	Adherent cells, Suspension cells
Assay type	Cell-based (qualitative)
Product overview	Phalloidin-iFluor 647 Reagent (ab176759) is one of a series of phalloidin conjugates that bind to actin filaments, also known as F-actin. Phalloidin-iFluor 647 can be detected with a fluorescent microscope at Ex/Em = 650/665 nm. Phalloidin conjugates are convenient probes for labeling, identifying and quantifying animal or plant actin filaments in formaldehyde-fixed and permeabilized tissue sections, cell cultures or cell-free experiments. They can also be used in paraffin-embedded samples that have been de-paraffinized. Review other popular phalloidin dye conjugates, including **Phalloidin-iFluor 488**, **Phalloidin-iFluor 594**, **Phalloidin-iFluor 555**, and **Rhodamine Phalloidin**, search the website to see **all phallodin conjugates**, or read the **phalloidin staining protocol**.
Notes	Staining fixed cell or tissue samples with phalloidin conjugates is very simple; it requires a single 20-90 min incubation with the phalloidin, followed by 3 short wash steps. Phalloidin staining can be combined with antibody-based staining by adding the phalloidin conjugate during either the primary or secondary antibody incubation step. When used in unfixed samples, phalloidin binding leads to a decrease in the disassociation rate of actin subunits from the ends of actin filaments, essentially stabilizing actin filaments through the prevention of filament depolymerisation.
Platform	Fluorescence microscope

Properties

Storage instructions	Store at -20°C. Please refer to protocols.

Components	300 tests
Phalloidin-iFluor 647 Conjugate	1 x 300 tests

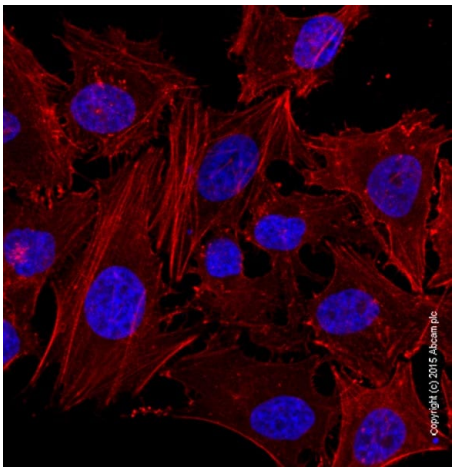
Images



Functional Studies - Phalloidin-iFluor 647 Reagent (ab176759)

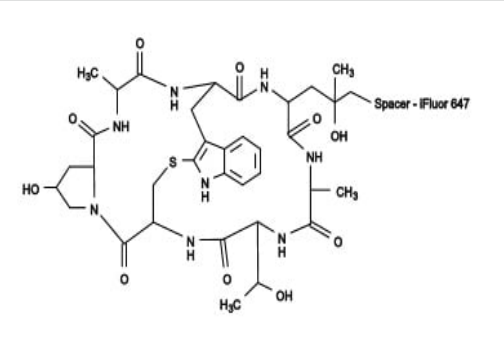
Burgoyne, Thomas et al., PloS one?vol. 13,1 e0191048., supplementary Fig 2, doi:10.1371/journal.pone.0191048

Fluorescence microscopy (FM) image of laminin-1 and actin (phalloidin) staining.

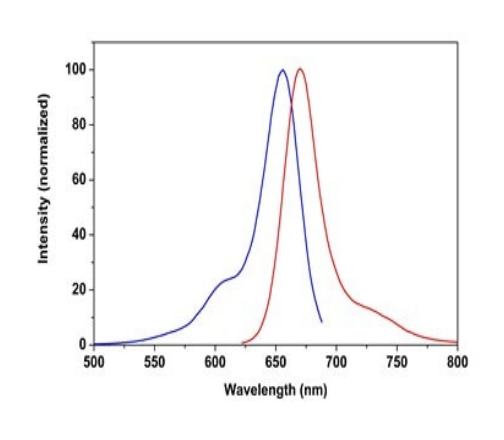


CytoPainter Phalloidin-iFluor 647 Reagent (ab176759)

Actin filaments staining in HeLa cells. Actin filaments (red) were stained with CytoPainter Phalloidin-iFluor 647 reagent (ab176759). Nuclei were stained with DAPI (blue).



Structure



Cytopainter Phalloidin-iFluor 647 Reagent

(ab176759)

Excitation and emission spectra of phalloidin-iFluor 647 reagent.

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