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Store at -20C	DyLight 594 Phalloidin	C C	
		Orders:	877-616-CELL (2355) orders@cellsignal.com
77	300 units	Support:	877-678-TECH (8324)
287		Web:	info@cellsignal.com cellsignal.com
#1	3 Trask	Lane Danvers Mas	sachusetts 01923 USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: IF-F, IF-IC	Reactivity: All
Description	DyLight 594 Phalloidin allows researchers to fluorescently label the cytoskeleton of fixed cells through the binding of phalloidin to F-actin. This product is not intended for use on live cells due to the toxicity associated with phalloidin. After reconstitution the stock solution provides enough material to perform 900 assays based on a 1:300 dilution and a 100 μl assay volume.
	DyLight 594 Fluorescent Properties: Excitation: 585 nm, Emission: 613 nm.
Background	Actin is a ubiquitous eukaryotic protein and a major component of the cytoskeleton. At least six isoforms are known in mammals. Nonmuscle β - and γ -actin, also known as cytoplasmic actin, are predominantly expressed in nonmuscle cells to control cell structure and motility (1). Actin exists main as a fibrous polymer called F-actin. In response to cytoskeletal reorganizing signals during processes such as cytokinesis, endocytosis, or stress, cofilin promotes fragmentation and depolymerization of F- actin resulting in an increase in the monomeric globular G-actin form (2). Phalloidin is a naturally occurring toxic bicyclic peptide found in the deathcap toadstool, <i>Amanita phalloides</i> , which rapidly binds to F-actin with strong affinity (3).
Storage	This material is provided as lyophilized solid that is stable for 1 year at -20°C, desiccated and protected from light. Phalloidin conjugates should be reconstituted in anhydrous DMSO to make stock solutions, please refer to the directions for use for details. Once reconstituted in DMSO, stock solutions are stable for 1 year at -20°C. Stability in aqueous solutions is low and the conjugate should only be in the presence of an aqueous solution during incubation with cells.IF
Directions for Use	To make a 300X stock, reconstitute the lyophilized material in 300 μ l anhydrous DMSO. Fix cells for 15 minutes using fresh, methanol-free 4% formaldehyde, then rinse three times in PBS for 5 minutes each Once fixed, please follow Cell Signaling Technology protocol for immunofluorescence. Following incubation of the primary and secondary antibodies, DyLight 594 Phalloidin can be diluted 1:300 (0.33 μ l per 100 μ l assay volume) in PBS and added to the cells. Allow to incubate for 15 minutes at room temperature, then rinse once with PBS. Coverslip slides with ProLong Gold Antifade Reagent #9071 and examine specimen using appropriate excitation wavelength.
	Note: Product usage information for this product has changed effective September 01 2024. Previous recommendations were to use either methanol or DMSO as a solvent for lyophilization of the material; It is now recommended to ONLY use DMSO.
Background Refere	1 . Herman, I.M. (1993) Curr Opin Cell Biol 5, 48-55. 2. Condeelis, J. (2001) Trends Cell Biol 11, 288-93. 3. Lengsfeld, A.M. et al. (1974) Proc Natl Acad Sci U S A 71, 2803-7.
Applications Key	IF-F: Immunofluorescence (Frozen) IF-IC: Immunofluorescence (Immunocytochemistry)
Cross-Reactivity Key	All: All Species Expected
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