Glowing products for science

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ActinBrite™ High Affinity Phalloidin Conjugates

Novel phalloidin conjugates of fluorescent dyes designed to preserve strong F-actin binding for bright, specific staining that remains stable for over a month.

Product attributes

Probe cellular localization	Cytoskeleton, F-Actin
For live or fixed cells	For fixed cells
Assay type/options	Tissue staining
Detection method/readout	Fluorescence microscopy
Cell permeability	Membrane impermeant
Fixation options	Fix before staining (formaldehyde), Permeabilize before staining
Toxin	Phalloidin
Colors	Green, Orange, Red, Far-red, Near-infrared

Product Description

ActinBrite™ High Affinity Phalloidin Conjugates are novel phalloidin conjugates of fluorescent dyes that were designed to preserve high phalloidin affinity for F-actin, resulting in bright staining that can be imaged more than one month after staining with minimal loss of signal or specificity.

- Novel fluorescent phalloidin conjugates designed to preserve F-actin binding
- Allows stained samples to be stored for over a month or longer depending on the conjugate
- Available in 7 colors from green to near-IR for seamless multiplexing
- Serve as direct replacements for any phalloidin conjugate

Reliable F-actin Staining, No Fading

Fluorescent phalloidins are popular tools for staining F-actin in fixed cells and tissues, but traditional dye conjugation can reduce their binding affinity—leading to weaker, less stable staining compared to other probes like labeled antibodies. As a result, phalloidin-stained samples typically lose signal within a week, especially when used with standard fluorescence mounting media.

ActinBrite™ High Affinity Phalloidin Conjugates solve this problem by preserving strong F-actin binding, delivering bright, reliable staining that lasts. With ActinBrite™, samples can be imaged after for a month or more (depending on the conjugate and mounting method)—making delayed imaging easier and more dependable.

Conjugation	Ex/Em	Excitation Laser Line	Detection Channel	Size	Catalog No.
ActinBrite™ 488/505	488/505 nm	488 nm	FITC	50 U	00095-T
300 U	00095				
ActinBrite™ 530/555	532/558 nm	512 nm, 532 nm	Alexa Fluor® 532	50 U	00096-T
300 U	00096				
ActinBrite™ 550/565	547/565 nm	555 nm, 561 nm	Cy®3, Rhodamine	50 U	00097-T
300 U	00097				
ActinBrite™ 610/630	608/629 nm	594 nm	Texas Red®	50 U	00098-T
300 U	00098				
ActinBrite™ 645/665	644/665 nm	640 nm	Cy®5	50 U	00101-T
300 U	00101				
ActinBrite™ 665/690	669/685 nm	640 nm	Alexa Fluor® 660	50 U	00099-T
300 U	00099				
ActinBrite™ 750/770	750/775 nm	730 nm	Alexa Fluor® 750	50 U	00100-T
300 U	00100				

Biotium also offers CF® Dye conjugates of Vitamin D-Binding Protein (Vitamin D-BP, also known as GC Globulin) for visualizing monomeric G-actin in fixed and permeabilized cells. Biotium offers a wide selection of traditional and novel stains for labeling cell structures, organelles, or monitoring viability. Learn more about our cellular stains, or view our cellular stains selection guides. Conjugates for Annexin, lectins, streptavidin and other biomolecules are also available with bright and photostable CF® Dyes.