The new LifeAct is a probe for visualization of actin cytoskeleton organization and dynamics. LifeAct binds to the structure protein without constraining its activity. Only 17 amino acids long, LifeAct is linked to a fluorescent dye that allows the tracking of development and movement of actin structures. Originating from yeast, the marker has also been utilized in kidney cells, white blood cells, neurons, and other cell types and tissues. LifeAct is available as a plasmid coding for the peptide and a red or green fluorescent protein. The plasmid is used for transfection of various cell types and for the generation of stably expressing cell lines.

Company: Ibidi GmbH