

AcidiFluor ORANGE™ Labeling Kit

Code No.	Material	Contents	Storage	Stability
GC304	AcidiFluor ORANGE™ Labeling Kit	<ul style="list-style-type: none"> ▪ AcidiFluor ORANGE-NHS × 5 ▪ Reaction Buffer 1.5 mL × 1 ▪ Washing Buffer 10 mL × 1 ▪ Ultrafiltration column × 5 	Store <-20° C, desiccate and protect from light Storage of the DMSO/dye solution is not recommended	1 year (unopened)

AcidiFluor ORANGE™-NHS (succinimidyl ester) is an amine-reactive pH probe. Protein samples and terminal aminated oligonucleotide samples can be labeled by AcidiFluor ORANGE–NHS by mixing. This kit contains all requirements for labeling and purification. 1 vial of AcidiFluor ORANGE™ -NHS can label about 100 µg of IgG.

CAUTION: DO NOT use for lower than 30 kDa protein samples.

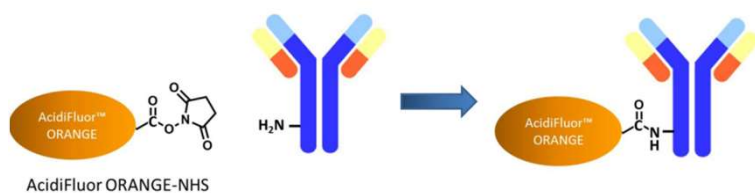


Fig 1. Reaction of AcidiFluor ORANGE™-NHS and antibody

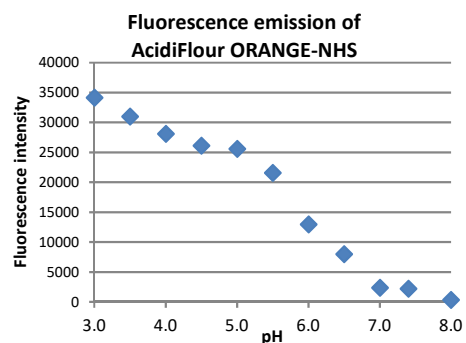
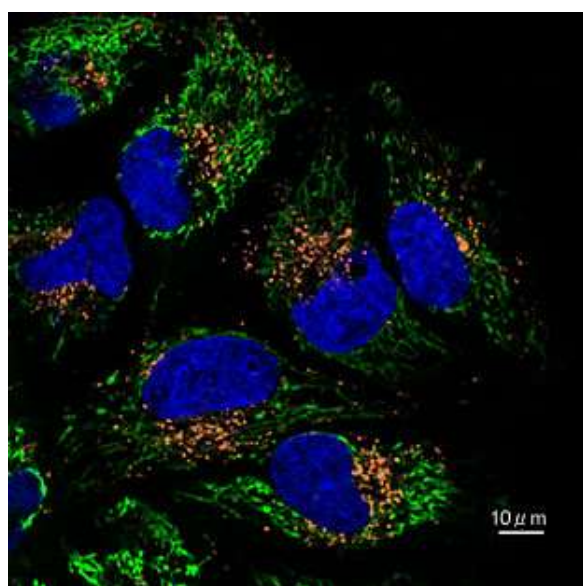


Fig 2. pH dependent fluorescence spectrum of AcidiFluor ORANGE™-NHS



Multicolor imaging using HeLa cells expressing Mitochondria-GFP also stained with AcidiFluor™ ORANGE and Hoechst33342. Lysosomes emit orange with AcidiFluor™ ORANGE, nuclei emit blue with Hoechst33342 and Mitochondria emit green with GFP. As shown in the figure, AcidiFluor™ ORANGE is useful for multicolor imaging.