Supporting Information

Intracellular pH Sensing using Autofluorescence Lifetime Microscopy

Shinya Ogikubo,†‡ Takakazu Nakabayashi,† Takashi Adachi,‡ Md. Serajul Islam,† Tomokazu Yoshizawa,† Masataka Kinjo,§ and Nobuhiro Ohta*†

†Research Institute for Electronic Science, Hokkaido University, Sapporo 001-0020, Japan
‡Frontier Core-Technology Laboratories, FUJIFILM Corporation, Kaisei-Machi, Ashigarakami-Gun, Kanagawa 258-8577, Japan
§Faculty of Advanced Life Science, Hokkaido University, Sapporo 001-0021, Japan

* To whom correspondence should be addressed. E-mail, nohta@es.hokudai.ac.jp; phone, +81-11-706-9410.
Figure S1 shows the area inside the single cell for which the decay profiles in Figure 2 were measured. The decay profiles measured at all the pixels in this area were accumulated. The pixel dwell time was 13.6 µs at each pixel of the image, and the total scanning number was 3500 for each decay measurement. The size of each cell is in the range of 15 – 40 µm.

Figure S1. Fluorescence intensity images of HeLa cells obtained from the integration of the decay profile at different pH, and the area (square) for which the scanning was done to measure the decay profiles shown in Figure 2.