



FIGURE 2. Acceptor photobleaching experiment on fixed MCF7 cells detecting the phosphorylation state of ErbB1-GFP receptors using an anti-phosphotyrosine antibody labeled with Cy3. Fixation and antibody incubation were performed as described by Wouters and Bastiaens (1999). (Upper row) ErbB1-GFP images before and after photobleaching of the acceptor within the indicated region and their difference image. (Lower row, left and middle) Acceptor intensities before and after photobleaching in the indicated region. (Lower row, right) The apparent energy transfer efficiency calculated from the donor intensities before and after photobleaching the acceptor. The efficiency is calculated by acceptor photobleaching and is therefore only measured in the (acceptor) bleached area. The area outside the bleached region is an internal control and is distributed around zero. Reprinted from Sambrook and Russell (2001).

Protein–Protein Interactions: A Molecular Cloning Manual, 2nd Ed., © 2005 by Cold Spring Harbor Laboratory Press, Chapter 32, Figure 2.