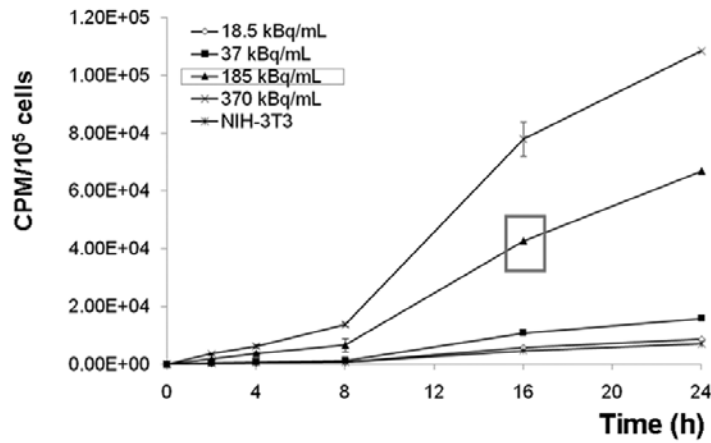


A



B

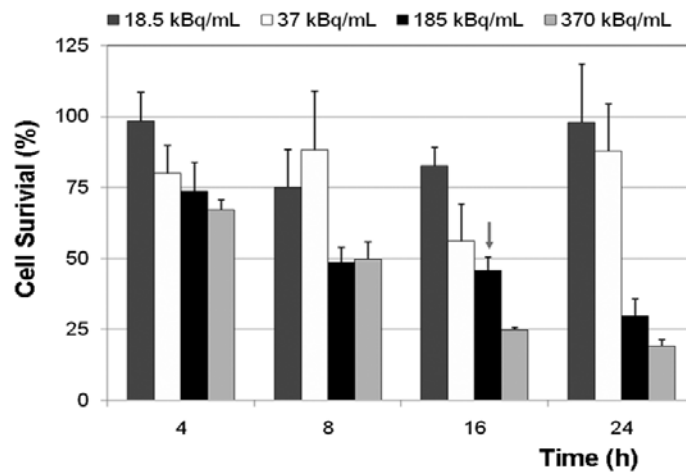


FIGURE 1. In vitro analyses of ^{131}I -FIAU-labeled NIH3T3-TG cells. (A) Cellular uptake of ^{131}I -FIAU is time-dependent in HSV1-TK-transduced NIH3T3-TG cells but not in parental NIH3T3 cells. Optimal labeling condition was indicated by boxed area. (B) Time-dependent survival ratio of NIH3T3-TG labeled with ^{131}I -FIAU in vitro. Survival ratio was determined by using colony formation to compare number of surviving colonies of NIH3T3-TG incubated with or without ^{131}I -FIAU for various time points. Optimal amount of radioactivity uptake and percentage NIH3T3-TG cell survival was determined at 185 kBq/mL for 16 h (indicated by the downward arrow).