Alpha SureFire® Ultra™ Multiplex
p-Akt1/2/3 (Ser473) + Total Akt1 Assay Kit


Kit-Specificity Information
This assay kit contains antibodies which recognize the phospho-Ser473 epitope, and a distal epitope, on Akt 1/2/3 for phospho Akt analysis, plus antibodies to measure the total levels of Akt 1. The proteins detected by this kit correspond to GenBank Accessions NP_001014431, NP_001617, and NP_859029. These antibodies recognize Akt of human, mouse and rat origin. Other species should be tested on a case-by-case basis.

Control Lysate Information
Positive Control Lysate: Prepared from HEK293 cells, cultured to confluence in T175 flasks in 10% FBS containing medium, then treated with 20% FBS for 15min and lysed in 4mL of 1X SureFire Ultra Lysis buffer.

Representative data
Data obtained with a 2-plate, 2-incubation protocol. MCF-7 cells were plated overnight at 20K cells per well in a 96 well plate, serum starved for 2 hours, then treated with insulin for 30 minutes. Cells were lysed with 100µL of 1X Lysis buffer and samples were assayed for both phospho Akt1/2/3 (Ser473) and total Akt1 as detailed in the MPSU manual.