Kit Specificity
This assay kit contains antibodies which recognize the phospho-Tyr15 epitope and a distal epitope on CDK1, plus antibodies to measure the total levels of CDK1. The protein detected by this kit corresponds to UniProt ID P06493. CDK1 is also known as CDC2 and CDC28A. These antibodies recognize CDK1 of human 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 and lysed in 10 mL of SureFire Ultra Lysis Buffer.

Representative Data
Data obtained with a 2-plate, 2-incubation protocol. A431 cells were plated overnight at 40K cells/well in a 96 well plate. Cells were treated with Nocodazole at the indicated concentrations for 20 hours. Cells were lysed with SureFire Ultra Lysis Buffer and assayed for Phospho (Tyr15) and Total CDK1 in the same wells of an assay plate. Equivalent to approximately 8,000 cells/datapoint.