

AlphaLISA™ SureFire® Biotin Free

Human and Mouse p-CDK2 (Thr160) Detection Kit

Product number: ASBF-PCDK2-A500, ASBF-PCDK2-A10K,
ASBF-PCDK2-A50K, ASBF-PCDK2-A-HV



Kit specificity:

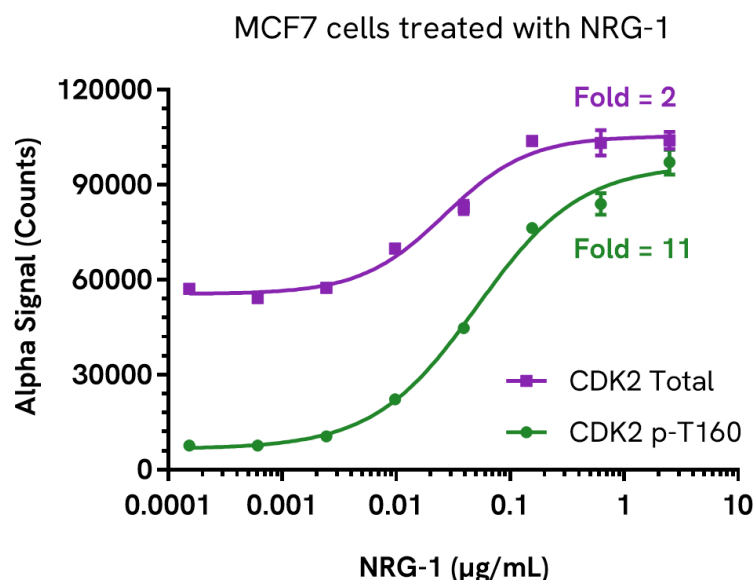
This assay kit contains antibodies which recognize the phospho-Thr160 epitope and a distal epitope on CDK2. The protein detected by this kit corresponds to UniProt ID P24941. CDK2 is also known as Cyclin-dependent kinase 2. These antibodies recognize CDK2 of human and mouse origin. Other species should be tested on a case-by-case basis.

Control lysate information:

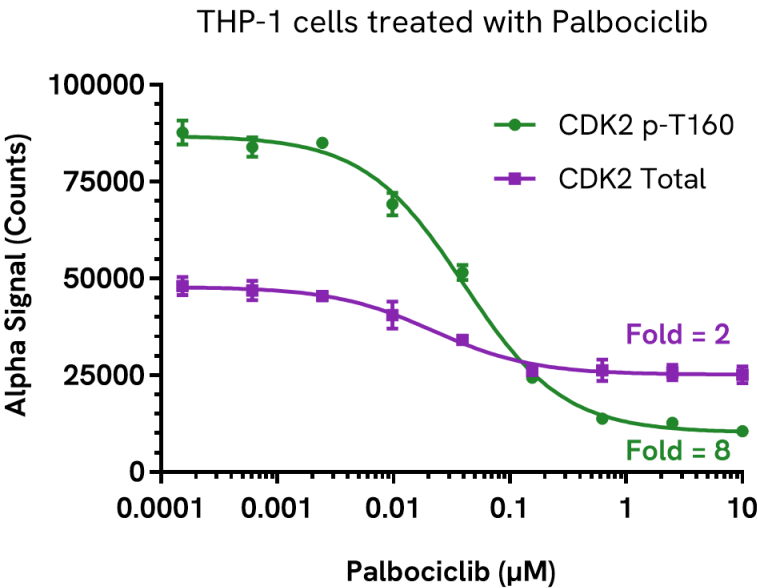
Positive Control Lysate: Prepared from HeLa cells, cultured to confluence in T175 flasks in 10% FBS containing media and lysed with 5 mL of Lysis Buffer.

Representative data:

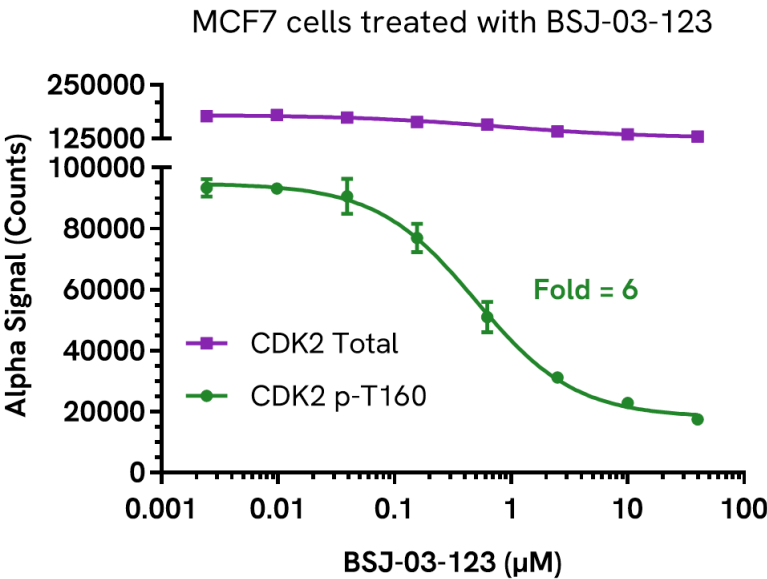
Data obtained with a 2-plate, 2-incubation protocol. MCF7 cells were seeded at 40K cells/well in a 96-well plate and incubated overnight. Cells were treated with 5 μ M LY294002 (PI3K inhibitor) for 3 hours and then with increasing concentrations of Neuregulin-1 (NRG-1) for 24 hours in serum free media. Cells were lysed with Lysis Buffer and assayed separately for Phospho (Thr160) and Total CDK2 using respective SureFire Biotin Free kits. Equivalent to approximately 2,000 cells/datapoint.



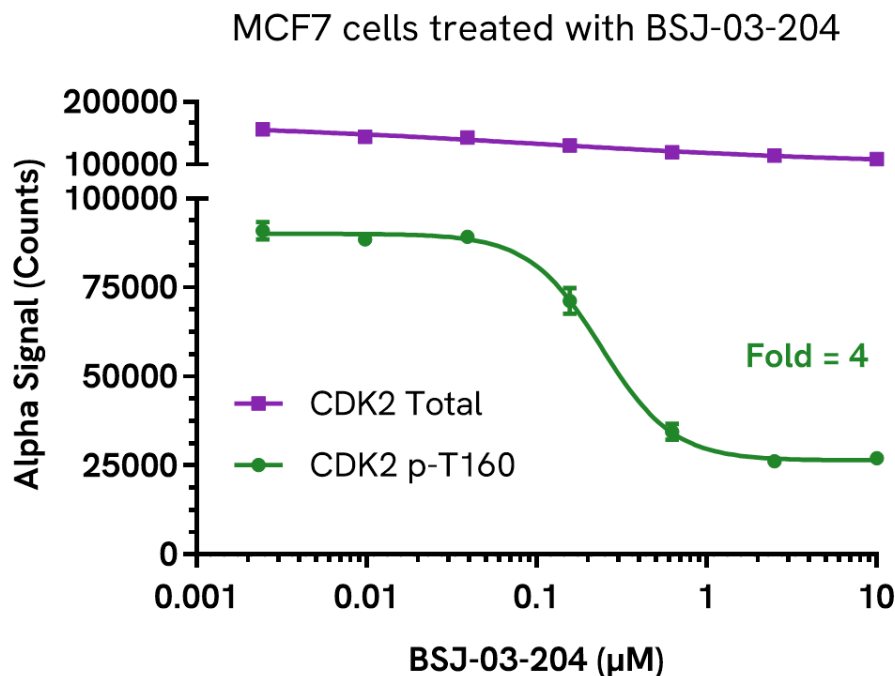
Data obtained with a 2-plate, 2-incubation protocol. THP-1 cells were seeded at 200K cells/well in a 96-well plate and then treated with increasing concentrations of palbociclib for 24 hours. Cells were lysed with Lysis Buffer and assayed separately for Phospho (Thr160) and Total CDK2 using respective *SureFire* Biotin Free kits. Equivalent to approximately 5,000 cells/datapoint.



Data obtained with a 2-plate, 2-incubation protocol. MCF7 cells were seeded at 40K cells/well in a 96-well plate and incubated overnight. Cells were treated with increasing concentrations of BSJ-03-123 (CDK6 PROTAC) for 24 hours. Cells were lysed with Lysis Buffer and assayed separately for Phospho (Thr160) and Total CDK2 using respective *SureFire* Biotin Free kits. Equivalent to approximately 4,000 cells/datapoint.



Data obtained with a 2-plate, 2-incubation protocol. MCF7 cells were seeded at 40K cells/well in a 96-well plate and incubated overnight. Cells were treated with increasing concentrations of BSJ-03-204 (CDK4/6 PROTAC) for 24 hours. Cells were lysed with Lysis Buffer and assayed separately for Phospho (Thr160) and Total CDK2 using respective *SureFire* Biotin Free kits. Equivalent to approximately 4,000 cells/datapoint.



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