

AlphaLISA® SureFire® Ultra™

# Human and Mouse Cleaved PARP1 (Asp214) Detection Kit

**Product number:** ALSU-CPARP1-A500, ALSU-CPARP1-A10K,  
 ALSU-CPARP1-A50K, ALSU-CPARP1-A-HV



**Kit specificity:**

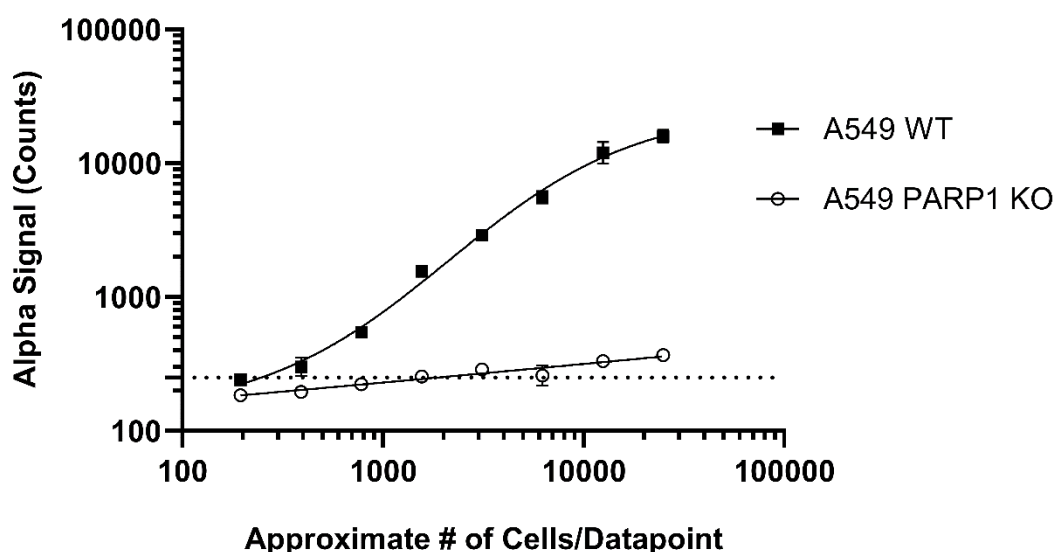
This assay kit contains antibodies which recognize distinct epitopes when Poly (ADP-ribose) polymerase 1 (PARP1) is cleaved at Asp214. The protein detected by this kit corresponds to UniProt ID P09874. PARP1 is also known as ADP-ribosyltransferase diphtheria toxin-like 1 and Poly[ADP-ribose] synthase 1. These antibodies recognize cleaved PARP1 of human and mouse origin. Other species should be tested on a case-by-case basis.

**Control lysate information:**

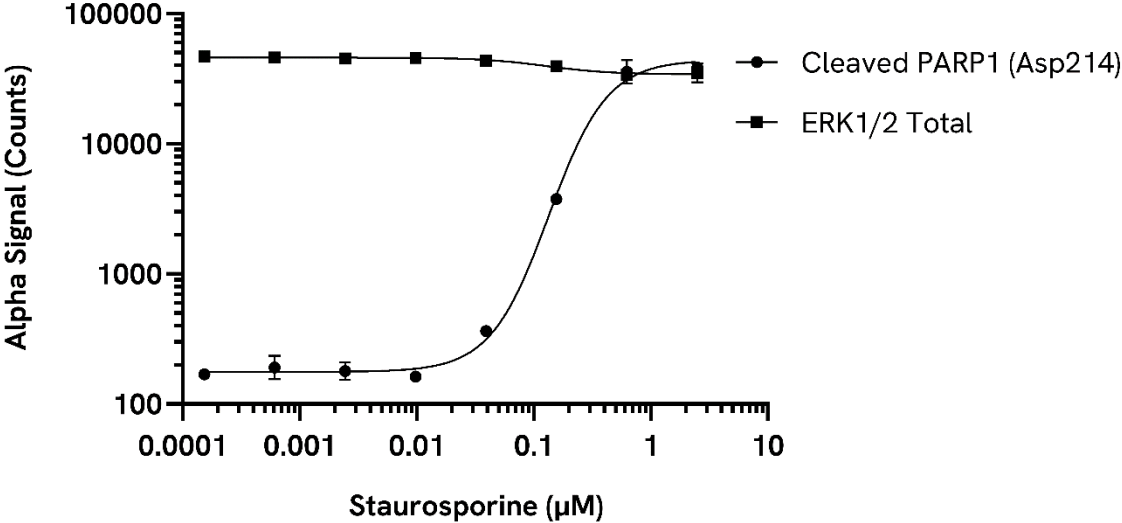
Positive Control Lysate: Prepared from HeLa cells cultured in 10% FBS containing media. Cells were treated with 1 μM Staurosporine for 4 hours in 1% FBS containing media and lysed with 6 mL of Lysis Buffer.

**Representative data:**

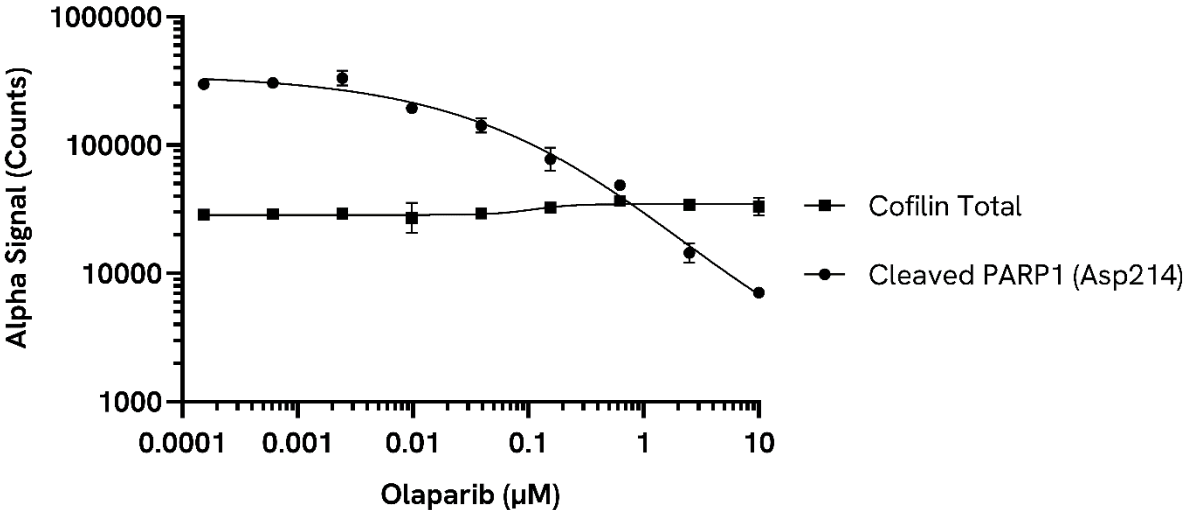
A549 wild type (WT) and A549 PARP1 knockout (KO, Abcam ab276094) cell lines were cultured to confluence in T75 flasks in 10% FBS containing media. Cells were treated with 1 μM Staurosporine for 4 hours in 1% FBS containing media, lysed in 2 mL of Lysis Buffer, serially diluted with Lysis Buffer, then assayed for Cleaved PARP1 (Asp214) using the SureFire Ultra kit. Assay background is represented by the dotted line. Approximate number of cells/datapoint is indicated.



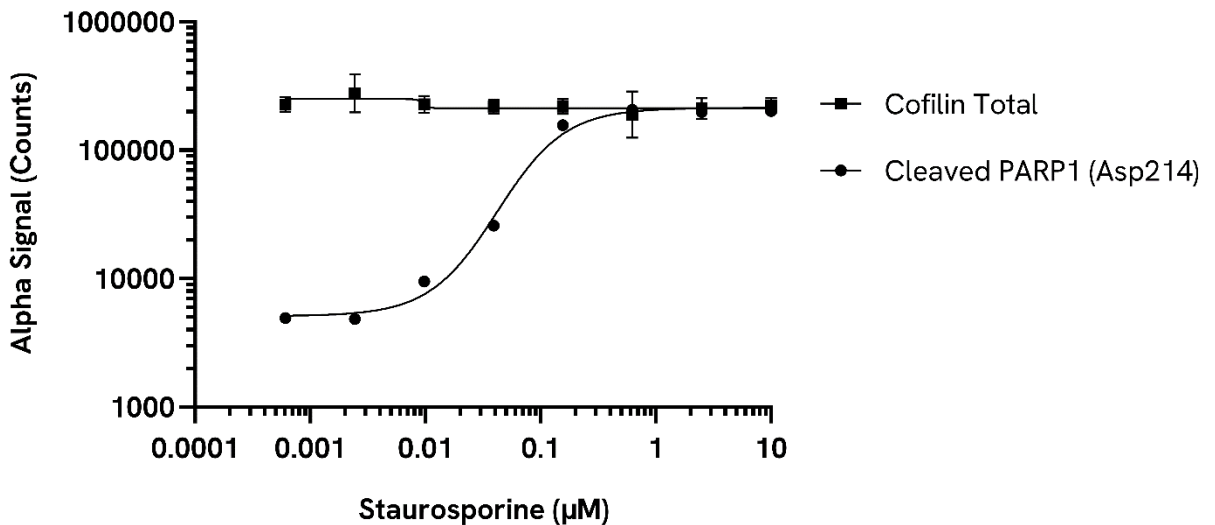
Data obtained with a 2-plate, 2-incubation protocol. RAW 264.7 cells were seeded at 40K cells/well in a 96 well plate and incubated overnight. Cells were treated with Staurosporine in media containing 1% FBS at the indicated concentrations for 4 hours. Cells were lysed with Lysis Buffer and assayed for Cleaved PARP1 (Asp214) and Total ERK1/2 using respective *SureFire Ultra* kits. Equivalent to approximately 4,000 cells/datapoint.



Data obtained with a 2-plate, 2-incubation protocol. HeLa cells were seeded at 40K cells/well in a 96 well plate and incubated overnight. Cells were pre-treated with 1 µM Staurosporine in media containing 1% FBS for 4 hours. Cells were then treated with Olaparib at the indicated concentrations for 10 minutes. Cells were lysed with Lysis Buffer and assayed for Cleaved PARP1 (Asp214) and Total Cofilin using respective *SureFire Ultra* kits. Equivalent to approximately 4,000 cells/datapoint for Cleaved PARP1 (Asp214) and approximately 200 cells/datapoint for Total Cofilin.



Data obtained with a 2-plate, 2-incubation protocol. HeLa cells were seeded at 40K cells/well in a 96 well plate and incubated overnight. Cells were treated with Staurosporine in media containing 1% FBS at the indicated concentrations for 4 hours. Cells were lysed with Lysis Buffer and assayed for Cleaved PARP1 (Asp214) and Total Cofilin using respective *SureFire Ultra* kits. Equivalent to approximately 4,000 cells/datapoint for Cleaved PARP1 (Asp214) and approximately 200 cells/datapoint for Total Cofilin.



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