AlphaLISA® *SureFire® Ultra™*

Human and Mouse ATR Total Detection Kit

Product number: ALSU-TATR-A500, ALSU-TATR-A10K, ALSU-TATR-A50K, ALSU-TATR-A-HV

Kit specificity:

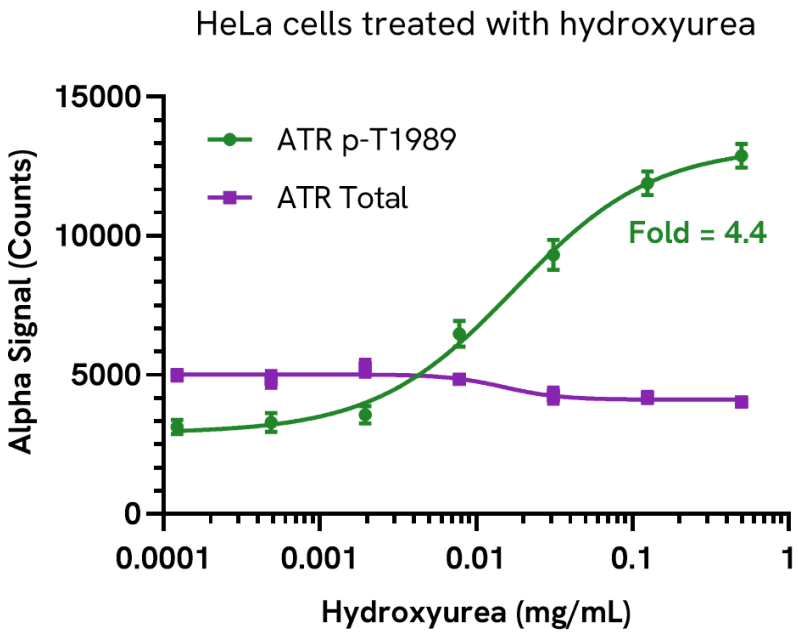
This assay kit contains antibodies which recognize distinct epitopes on ATR. The protein detected by this kit corresponds to UniProt ID Q13535. ATR is also known as ataxia telangiectasia and Rad3-related protein or FRAP-related protein. These antibodies recognize ATR of human and mouse origin. Other species should be tested on a case-by-case basis.

Control lysate information:

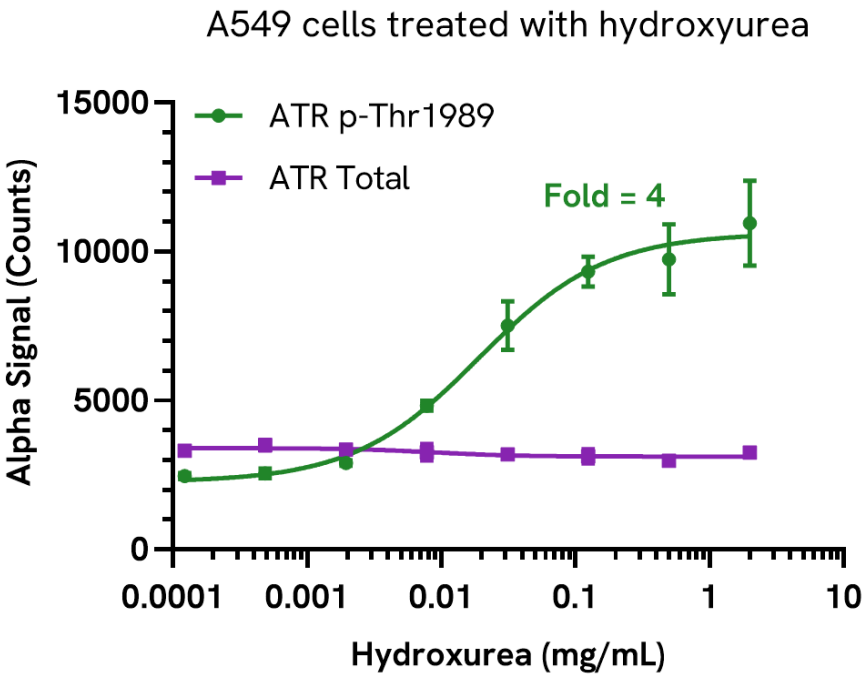
Positive Control Lysate: Prepared from HeLa cells, cultured to confluence in T175 flasks in 10% FBS containing medium, then treated with 2 µM etoposide for 18 hours and lysed with 3 mL of Lysis Buffer.

Representative data:

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 increasing concentrations of hydroxyurea. Cells were lysed with Lysis Buffer and assayed separately for Phospho (Thr1989) and Total ATR, using respective *SureFire Ultra* kits. Equivalent to approximately 8,000 cells/datapoint.



Data obtained with a 2-plate, 2-incubation protocol. A549 cells were seeded at 40K cells/well in a 96-well plate and incubated overnight. Cells were treated with increasing concentrations of hydroxyurea. Cells were lysed with Lysis Buffer and assayed separately for Phospho (Thr1989) and Total ATR, using respective *SureFire Ultra* kits. Equivalent to approximately 8,000 cells/datapoint.



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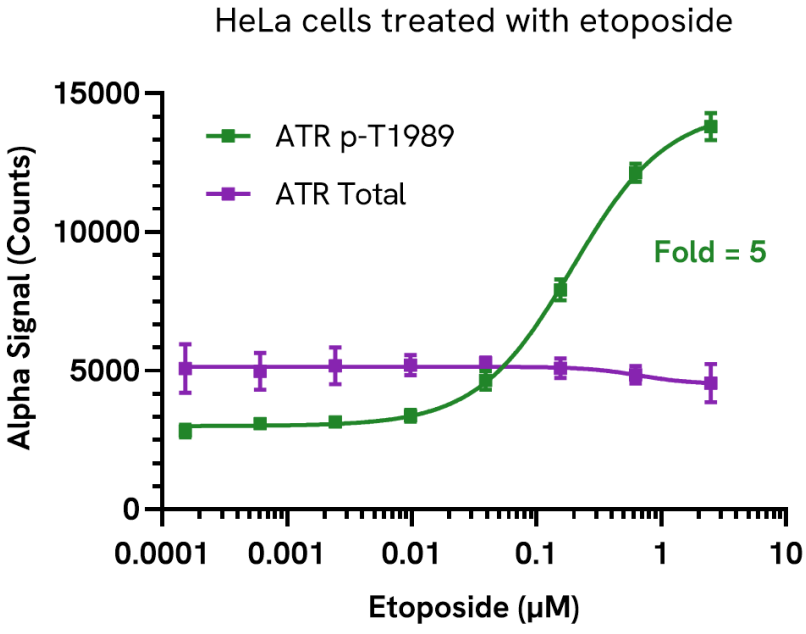

Data obtained from measurement of ATR Total in various cell types lysed with Lysis Buffer. Equivalent to approximately 10,000 cells/datapoint for adherent cells or 32,000 cells/datapoint for suspension cells.