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ADP-Glo kinase assay

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1 Works for me

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ABSTRACT

An assay for measuring ULK1 kinase activity

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MATERIALS TEXT

ADP-GloTM kinase assay kit (Promega)
ULKtide(SignalChem Biotech Inc.)

- 1 Make a mixture of 100 nM purified wild-type or kinase dead ULK1 complex with 5 μ M ULKtide in the presence or absence of 100 μ M ATP. The total volume is 50 μ L.
- 2 Incubate at room temperature for 1 h.
- 3 Add 50 μ L ATP-depletion reagent to terminate the reaction and deplete the unconsumed ATP.
- 4 Incubate at room temperature for 40 min.

- 5 Add 10 μ L of kinase detection reagent to convert ADP to ATP and introduce luciferase and luciferin to detect ATP.
- 6 Measure the luminescent output by a GloMax-Multi detection system.