AlphaLISA® *SureFire® Ultra™*

Human and Mouse ERK 1/2 Total Detection Kit

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

Kit specificity:

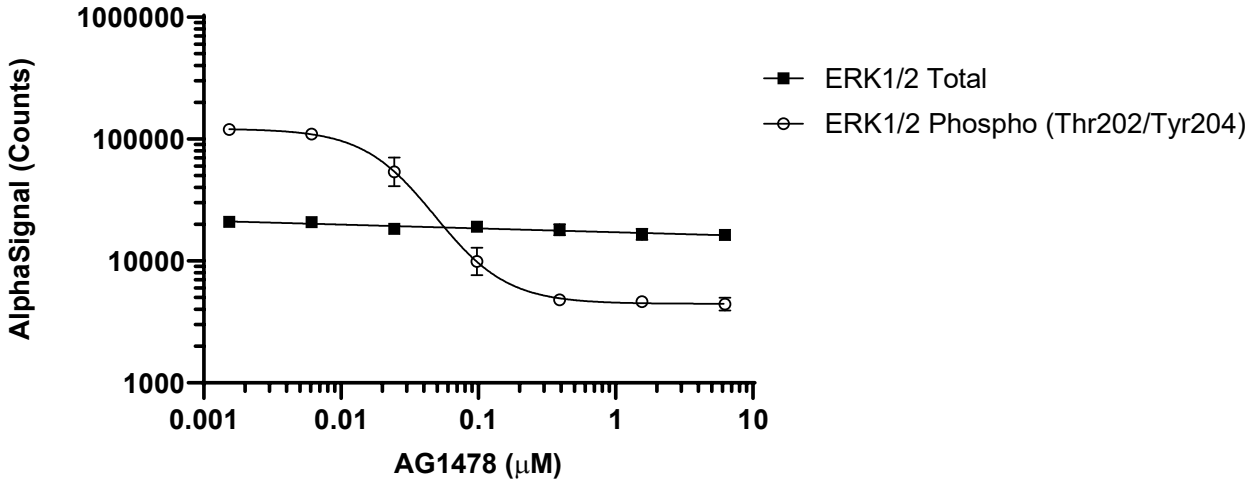
This assay kit contains antibodies which recognize the distinct epitopes on ERK1/2. The protein detected by this kit corresponds to UniProt ID P28482 (ERK1) and UniProt ID P28482 (ERK2). ERK1/2 is also known as Mitogen-activated protein kinase 1 (MAPK1). These antibodies recognize ERK1/2 of human and mouse origin. Other species should be tested on a case-by-case basis.

Control lysate information:

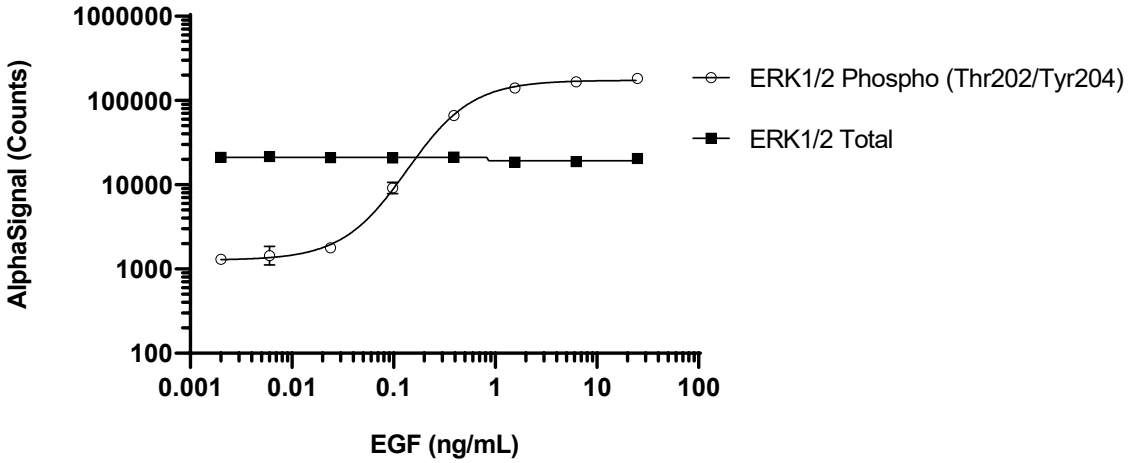
Positive Control Lysate: Prepared from A431 cells, cultured to confluence in T175 flasks in 10% FBS containing media, then treated with 200 ng/mL rhEGF for 10 minutes and lysed with 10 mL of Lysis Buffer.

Representative data

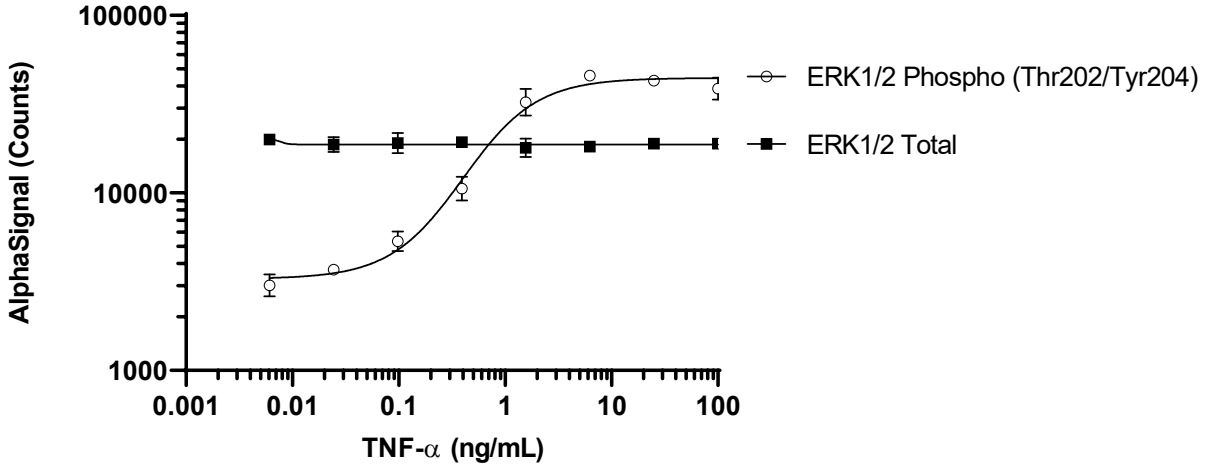
Data obtained with a 2-plate, 2-incubation protocol. HeLa cells were seeded at 40K cell per well in a 96 well plate and incubated overnight. Cells were treated with AG1478 at the indicated concentrations for 2 hours prior to treatment with 1 ng/mL EGF for 30 minutes. Cells were lysed with Lysis Buffer and assayed separately for Phospho (Thr202/Tyr204) 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. HEK293 cells were seeded at 40K cell per well in a 96 well plate and incubated overnight. Cells were serum starved for 2 hours prior to treatment with EGF at the indicated concentrations for 30 minutes. Cells were lysed with Lysis Buffer and assayed separately for Phospho (Thr202/Tyr204) 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 cell per well in a 96 well plate and incubated overnight. Cells were treated with TNF-α at the indicated concentrations for 30 minutes. Cells were lysed with Lysis Buffer and assayed separately for Phospho (Thr202/Tyr204) and Total ERK1/2 using respective *SureFire Ultra* kits. Equivalent to approximately 4,000 cells/datapoint.



Revvity, Inc.
940 Winter Street
Waltham, MA 02451 USA

(800) 762-4000
www.revvity.com

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