

AlphaLISA™ SureFire® Biotin Free

# Human and Mouse p-ERK 1/2 (Thr202/Tyr204) Detection Kit

**Product number:** ASBF-PERK-A500, ASBF-PERK-A10K,  
ASBF-PERK-A50K, ASBF-PERK-A-HV



**Kit specificity:**

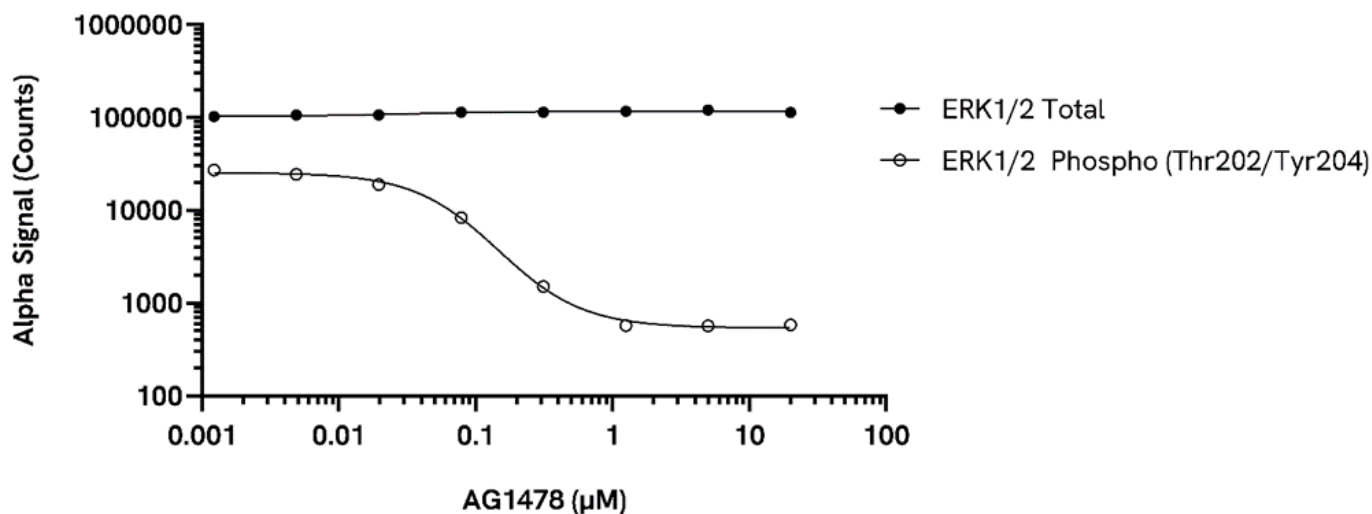
This assay kit contains antibodies which recognize the phospho-Thr202/Tyr204-epitope and a distal epitope on ERK1/2. The proteins detected by this kit correspond to UniProt IDs P27361 (ERK1) and P28482 (ERK2). ERK1/2 is also known as p44 MAPK, MAPK3 (ERK1) and p42 MAPK, MAPK1 (ERK2). These antibodies recognize ERK1/2 of human and mouse origin. Other species should be tested on a case-by-case basis.

**Control lysate information:**

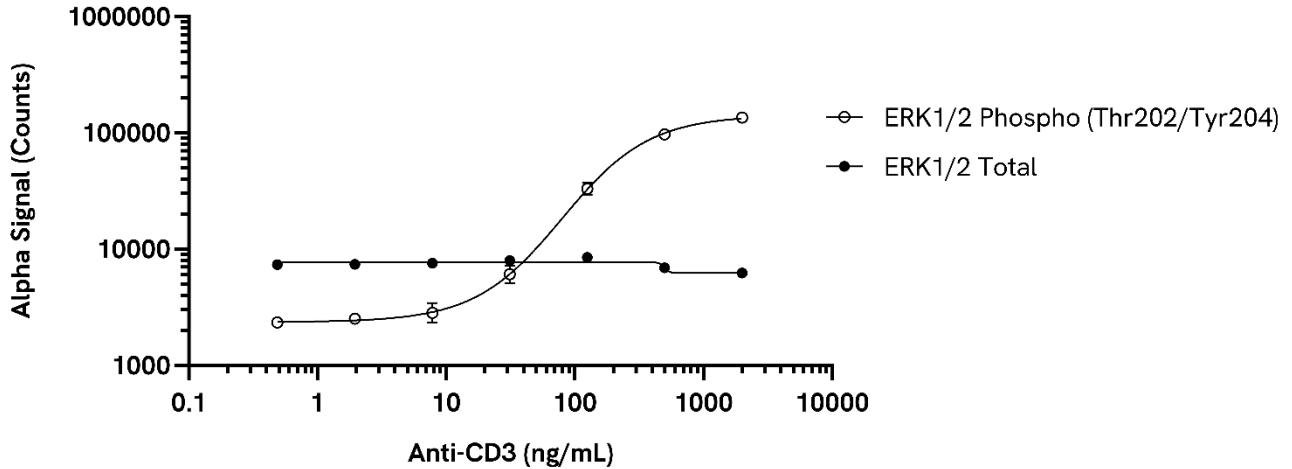
Positive Control Lysate: Prepared from A431 cells, cultured to confluence in T175 flasks in 10% FBS containing media, then treated with 200 ng/mL EGF for 10 minutes and lysed with 10 mL of Lysis Buffer.

**Representative data:**

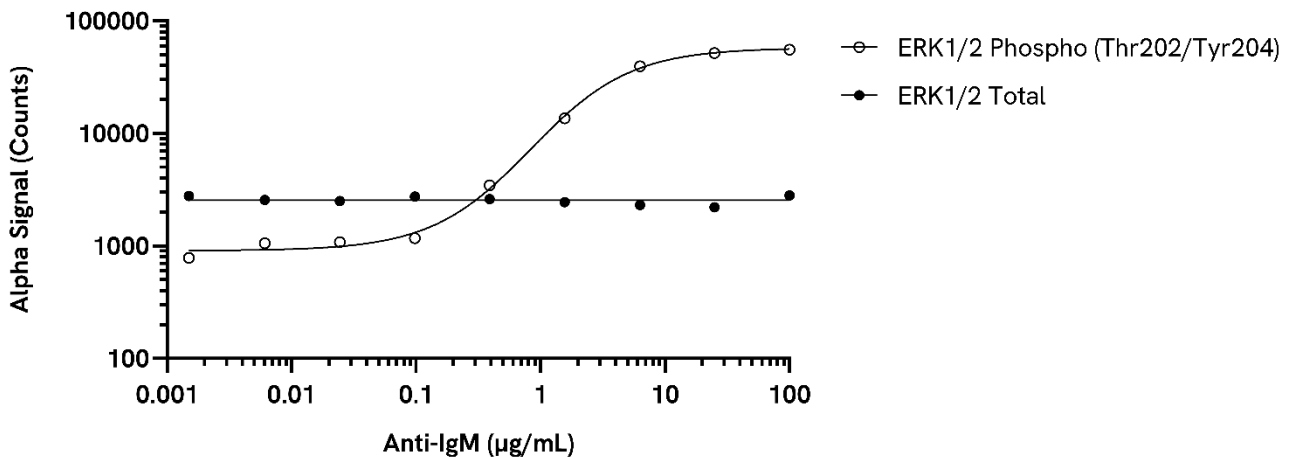
Data obtained with a 2-plate, 2-incubation protocol. PC-3 cells were seeded at 40K cells/well in a 96 well plate in complete Ham’s F-12K (Kaighn’s) medium and incubated overnight. Cells were treated with AG1478 for 2 hours at the indicated concentrations and then 1 ng/mL EGF for 30 minutes. Cells were lysed with Lysis Buffer and assayed separately for Phospho (Thr202/Tyr204) and Total ERK1/2 using respective SureFire Biotin Free kits. Equivalent to approximately 2,000 cells/datapoint.



Data obtained with a 2-plate, 2-incubation protocol. Jurkat cells were seeded at 200K cells/well in a 96 well plate and starved for 1 hour in serum-free RPMI 1640 medium. Cells were treated with Anti-CD3 antibody at the indicated concentrations for 5 minutes. Cells were lysed with the addition of 5X Lysis Buffer and assayed separately for Phospho (Thr202/Tyr204) and Total ERK1/2 using respective *SureFire* Biotin Free kits. Equivalent to approximately 8,000 cells/datapoint.



Data obtained with a 2-plate, 2-incubation protocol. Ramos cells were seeded at 200K cells/well in a 96 well plate and starved for 1 hour in serum-free RPMI 1640 medium. Cells were treated with Anti-IgM antibody at the indicated concentrations for 20 minutes. Cells were lysed with the addition of 5X Lysis Buffer and assayed separately for Phospho (Thr202/Tyr204) and Total ERK1/2 using respective *SureFire* Biotin Free kits. Equivalent to approximately 8,000 cells/datapoint.



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