AlphaLISA® *SureFire® Ultra™*

Human KRAS Total Detection Kit

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

Kit specificity:

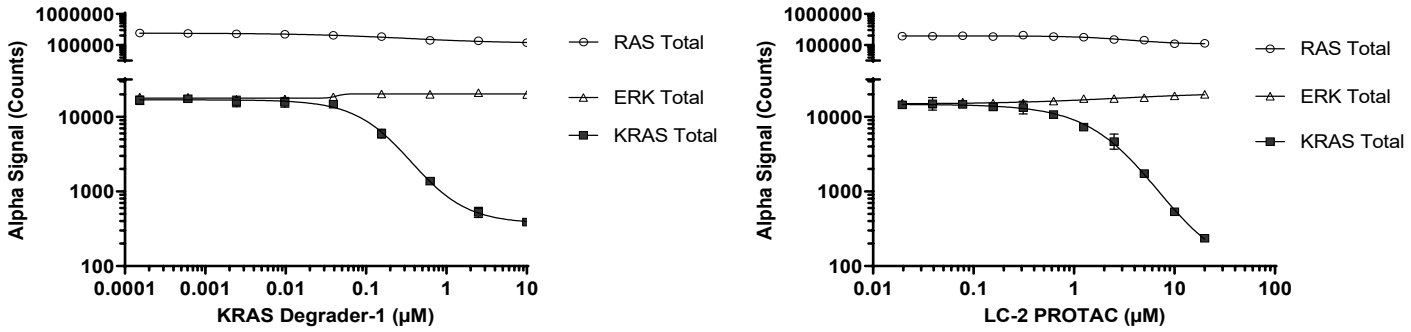
This assay kit contains antibodies which recognize distinct epitopes on KRAS. The protein detected by this kit corresponds to UniProt ID P01116. KRAS is also known as GTPase KRas, c-K-ras and KRAS2. This kit is specific for KRAS protein and does not recognize HRAS or NRAS isoforms. These antibodies recognize KRAS of human origin. Other species should be tested on a case-by-case basis.

Control lysate information:

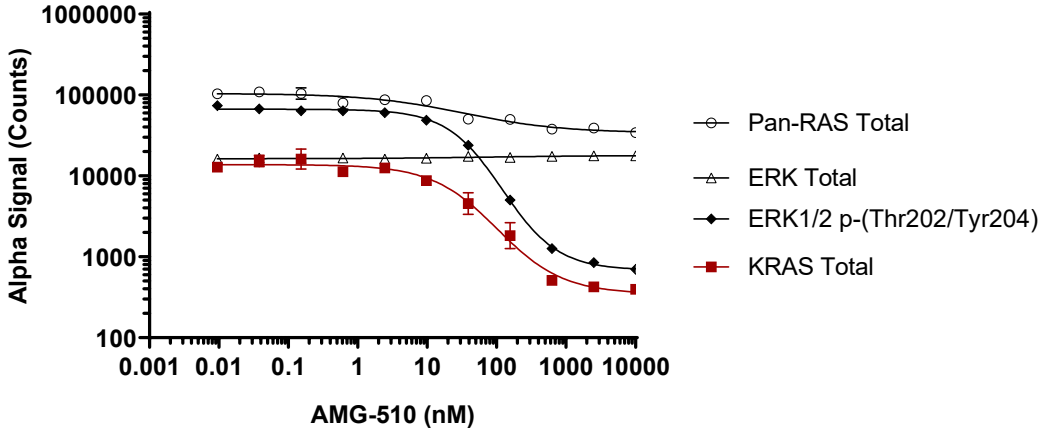
Positive Control Lysate: Prepared from HeLa cells, cultured to confluence in T175 flasks in 10% FBS containing medium, lysed with 4 mL of Lysis Buffer.

Representative data

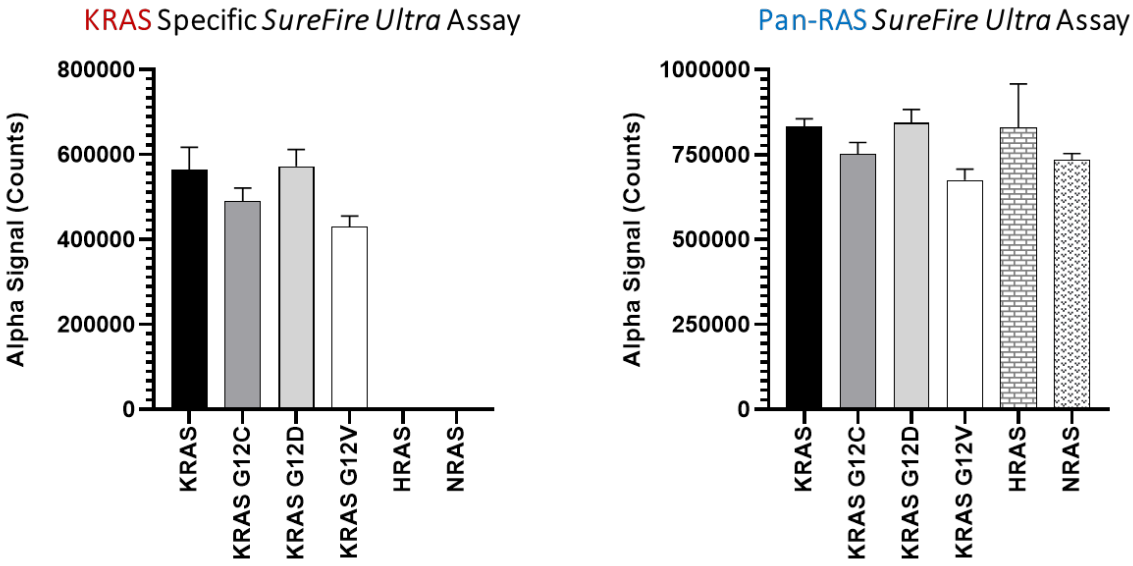
Data obtained with a 2-plate, 2-incubation protocol. SW1573 cells were seeded at 40K cells/well in a 96 well plate and incubated overnight. Cells were treated with KRAS Degrader-1 or LC-2 PROTAC at the indicated concentrations for 24 hours. Cells were lysed with Lysis Buffer and assayed for Total KRAS, Pan-RAS and ERK using respective *SureFire Ultra* kits. Equivalent to approximately 4,000 cells/datapoint.



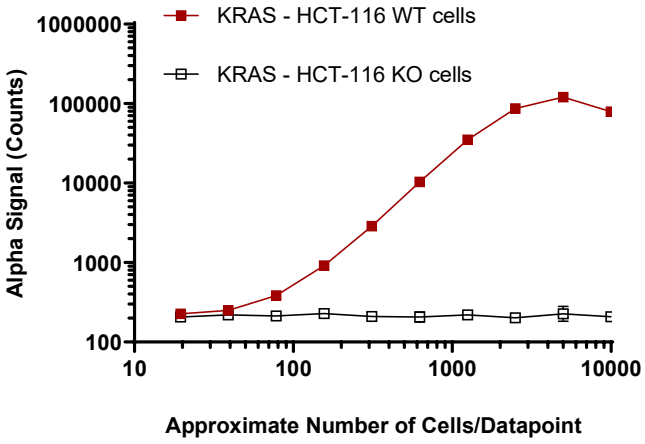
Data obtained with a 2-plate, 2-incubation protocol. SW1573 cells were seeded at 40K cells/well in a 96 well plate and incubated overnight. Cells were treated with AMG-510 inhibitor at the indicated concentrations for 2 hours in media containing 1% FBS. Cells were lysed with Lysis Buffer and assayed for various targets using respective *SureFire Ultra* kits. Equivalent to approximately 4,000 cells/datapoint.

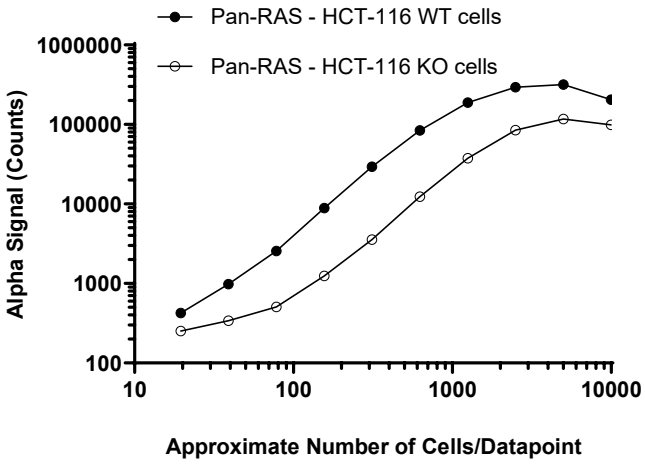


KRAS wild type, KRAS oncogenic variants G12C, G12D, G12V as well as HRAS and NRAS recombinant proteins were prepared at 1 µg/mL in Lysis Buffer and were evaluated using respective Total KRAS and Pan-RAS *SureFire Ultra* kits. No cross-reactivity against NRAS and HRAS isoforms was observed.



HCT-116-KRAS wild type (WT) and HCT-116-KRAS knockout (KO, Abcam ab276083) cell lines were cultured to confluence in T175 flasks. Cells were lysed in Lysis Buffer, serially diluted with Lysis Buffer, then assayed separately for Total KRAS and Pan-RAS using respective *SureFire Ultra* kits. Approximate cells/datapoint is indicated.





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