

## p-ERK-1/2

<b>Method:</b>	Alphalisa Surefire Ultra (Alphascreen)
<b>Vendor:</b>	PerkinElmer, Inc. Waltham, MA. USA. #ALSU-PERK-A-HV
<b>Description:</b>	<p>This service provides for the direct quantification of p-ERK-1/2 levels in user- provided cell lysates. The services utilizes the PerkinElmer Kit assay, which is designed on AlphaScreen SureFire Technology. In the AlphaScreen assay, donor beads coated with streptavidin capture a biotinylated antibody, and acceptor beads coated with Protein A capture a second antibody. Cobinding of the two antibodies to p-ERK brings the donor and acceptor beads together, resulting in an emission signal, the intensity of which is directly proportional to the amount of pERK-1/2 present in the sample. Typically, cells would be cultured in 96-well plates, treated with test drugs or control reagents for 30 minutes, then lysed with the assay lysis buffer (provided by Core). The plate would then be transferred to the Core for assay completion. The Core would thus add the donor and acceptor reagents, and process the samples for data acquisition and reduction using the PerkinElmer Envision plate reader and accompanying software. User costs are based on the cost of the kit and the fraction of the kit that is consumed by the user samples (wells).</p>

### Sample and Performance Characteristics

<b>Plate type:</b>	Flat-Bottom 96-well culture plates, cells must be Intact and living, or pre-frozen in kit Lysis Buffer
<b>Volume:</b>	Cells should be submitted in 100ul of culture medium, or frozen in 50-100ul of kit lysis buffer.
<b>Notes:</b>	Contact Core to arrange sample submission and assay.

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