ORDERING INFORMATION

Please refer to the following for ordering Alpha Technology products. AlphaLISA®, AlphaScreen®, AlphaLISA® SureFire® and AlphaLISA® SureFire® Ultra are for research purposes or agronomy/veterinary fields diagnostics only and are not intended for human diagnostic applications.

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Alpha Technology Products: Overview and Applications

- **AlphaLISA** and **AlphaScreen** are powerful tools for detecting biomarkers across different disease states.
- **AlphaLISA® SureFire®** and **AlphaLISA® SureFire® Ultra** are designed for protein phosphorylation analysis.
- **Epigenetics Reagents** are used for studying epigenetic modifications in various diseases.
- **Beads for Biochemical kinase assays** enable the measurement of kinase activity under physiological conditions.

PerkinElmer - For the Better
### Biomarker and Cytokine AlphaLISA Kits

#### Agriculture and Plant Science

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### Inflammation

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### AlphaPlex Multiplexing Biomarker Kits

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## Ig Detection

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### AlphaLISA Binding Kits

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### AlphaLISA Epigenetic Biochemical Assay Reagents

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## AlphaLISA® Epigenetic Cellular Detection Kits

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<td>AL714HV</td>
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<td>Di-methyl-Histone H3 Lysine 4 (H3K4me2)</td>
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<td>AL716F</td>
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<td>Di-methyl-Histone H3 Lysine 9 (H3K9me2)</td>
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<td>AL719C</td>
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<td>Di/mono-methyl-Histone H3 Lysine 27 (H3K27me2-1)</td>
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*Suitable for measuring total H3 content
Alpha SureFire Kits

For AlphaScreen® SureFire® products, the corresponding AlphaScreen SureFire IgG (Protein A based) Detection Kit needs to be ordered in addition to the AlphaScreen SureFire Phospho or total kit. Please note that the sum of the prices of both the AlphaScreen SureFire and the IgG detection kits is superior to the price of the corresponding AlphaLISA SureFire Ultra kit. If you have not already shifted to the AlphaLISA SureFire Ultra we highly recommend to do that shift as, in addition to cost-savings, there is on average a 10x gain in sensitivity and dynamic range for the AlphaLISA SureFire Ultra assays compared to the AlphaScreen SureFire assays.

For AlphaLISA® SureFire®™, the Alpha Donor and Acceptor beads are included in the kits.

The Alpha SureFire Ultra Multiplex dual targets kits contain all the reagents necessary to measure two targets from the same well, using the AlphaPlex technology.

The Alpha terbium SureFire Ultra kits are intended to be combined with some AlphaLISA SureFire Ultra kits in order to multiplex the measurement of two analytes. The terbium SureFire Ultra kits include the antibody-containing Reaction Buffers and the beads and cannot be used as standalone kits because the cell lysis buffer, the activation buffer and the dilution buffer are provided only in the AlphaLISA SureFire Ultra kits.

If you need a target in the AlphaLISA SureFire Ultra or in the terbium SureFire Ultra format and do not find it in the listing below, please contact us – we may already have developed it recently. We would also be happy to discuss the possibility of doing this on a custom basis.

All kits are available in three sizes for immunoassays to be performed in 384-well plate format, and the Ultra are also available in "High Volume" format: these kits contain 100 data points, in a convenient 96-well plate assay format, for low throughput applications.

Global Overview of Alpha SureFire Kits by Pathway

<table>
<thead>
<tr>
<th>PI3K/Akt/mTOR Pathway</th>
<th>JAK/STAT Pathway</th>
<th>NFκB Pathway</th>
<th>MAPK Pathway</th>
<th>Receptors</th>
<th>TGFB/BMP/SMAD Pathway</th>
<th>Others</th>
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<tr>
<td>4E-BP1</td>
<td>STAT1</td>
<td>IkBα</td>
<td>ATF-1</td>
<td>ALK</td>
<td>SMAD1</td>
<td>Acetyl CoA carboxylase</td>
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<td>Akt</td>
<td>STAT3</td>
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<td>ATF-2</td>
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<td>AMPKα 1/2</td>
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<td>BAD</td>
<td>STAT4</td>
<td>IKKβ</td>
<td>c-Jun</td>
<td>EGF Receptor</td>
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<td>eIF4E</td>
<td>STAT6</td>
<td>ERK 1/2</td>
<td>HSP27</td>
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Alphabetical Listing of Alpha SureFire Products

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<td>Phospho-Akt1 (Thr308)</td>
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* Please refer to our Epigenetics Listing for the total H3 (Unmodified H3K4 Cellular Kit) AL719
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<td>Phospho-SLP-76 (Ser376)</td>
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<td>Phospho-SMAD1 (Ser463/465)</td>
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<td>TGRSM1S10K</td>
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<td>Phospho-SMAD3 (Ser423/425)</td>
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<td>Phospho-STAT1 (Tyr701)</td>
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### AlphaScreen SureFire Ultra Multiplex

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<td>Phospho-STAT3 (Tyr705)</td>
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<td>Phospho-STAT4 (Tyr693)</td>
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<td>Phospho-STAT5 (Tyr94/689)</td>
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<td>Phospho-STAT6 (Tyr614/1166)</td>
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### Terbium SureFire Ultra

The terbium SureFire Ultra (TBSU) kits measure a single phosphoprotein target and are intended to be combined with a standard AlphaLISA SureFire Ultra kit (ALSU) to assess the second target. The TBSU kits allow for a pick-and-pack combination of any two phosphoprotein targets in the assay lists, providing measurement of two separate targets with ultimate flexibility of selection. The TBSU kits will report the target of interest through the Terbium (Tb) Acceptor beads, while the ALSU kit reports via the Europium (Eu) AlphaLISA Acceptor beads.

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<th>Product Description</th>
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<th>Part Number</th>
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<td>Phospho-4EBP1 (Thr37/46)</td>
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<td>Phospho-Akt1/2/3 (Thr286/287/288)</td>
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<td>Phospho-Akt1/2/3 (Ser473)</td>
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<td>TBSU-TCOF-A-HV</td>
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<td>Phospho-EGF Receptor (Tyr1068)</td>
<td>TBSU-PEF2-B500</td>
<td>TBSU-PEF2-B10K</td>
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<td>Phospho-Elf2alpha (Ser51)</td>
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<td>Phospho-ERK1/2/3 (T202/Y204)</td>
<td>TBSU-PG3B-A500</td>
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<td>Phospho-IGF1 Receptor (Tyr1135/1136)</td>
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<td>Phospho-JNK1/2/3 (Thr183/Tyr185)</td>
<td>TBSU-PJNK-A500</td>
<td>TBSU-PJNK-A10K</td>
<td>TBSU-PJNK-A50K</td>
<td>TBSU-PJNK-A-HV</td>
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<tr>
<td>Phospho-mTOR (Ser448)</td>
<td>TBSU-PMTOR-A500</td>
<td>TBSU-PMTOR-A10K</td>
<td>TBSU-PMTOR-A50K</td>
<td>TBSU-PMTOR-A-HV</td>
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<td>Phospho-NFκB p65 (Ser536)</td>
<td>TBSU-PNFKB-A500</td>
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<td>TBSU-PNFKB-A50K</td>
<td>TBSU-PNFKB-A-HV</td>
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<td>Phospho-p38 MAPK (Thr180/Tyr182)</td>
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<td>TBSU-PP38-B50K</td>
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<td>Phospho-p70S6K (Thr389)</td>
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<td>TBSU-PP70-A50K</td>
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<td>Phospho-SLP76 (Ser376)</td>
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<td>TBSU-PSSL-A10K</td>
<td>TBSU-PSSL-A50K</td>
<td>TBSU-PSSL-A-HV</td>
</tr>
<tr>
<td>Phospho-SMAD1 (Ser463/465)</td>
<td>TBSU-PSM1-A500</td>
<td>TBSU-PSM1-A10K</td>
<td>TBSU-PSM1-A50K</td>
<td>TBSU-PSM1-A-HV</td>
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<tr>
<td>Phospho-SMAD3 (Ser423/425)</td>
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<td>Phospho-STAT1 (Ser277)</td>
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<tr>
<td>Phospho-STAT3 (Tyr705)</td>
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<tr>
<td>Phospho-STAT4 (Tyr693)</td>
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<td>TBSU-PST4-A10K</td>
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<td>Phospho-STAT5 (Tyr694/699)</td>
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</tr>
<tr>
<td>Phospho-STAT6 (Tyr641)</td>
<td>TBSU-PST6-A500</td>
<td>TBSU-PST6-A10K</td>
<td>TBSU-PST6-A50K</td>
<td>TBSU-PST6-A-HV</td>
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### AlphaScreen SureFire IgG (Protein A Based) Detection Kits

These kits contain Protein A Acceptor Beads and Streptavidin Donor Beads that are needed when working with AlphaScreen SureFire kits.

<table>
<thead>
<tr>
<th>Product Description</th>
<th>Part Number</th>
<th>Part Number</th>
<th>Part Number</th>
<th>Part Number</th>
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<td>AlphaScreen General IgG (Protein A based) Detection Kit (384-well format)</td>
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<td>6760617M</td>
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<tr>
<td>AlphaScreen SureFire HV IgG (Protein A) Detection Kit (96-well format)</td>
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### AlphaScreen SureFire Supplementary Buffers

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<tbody>
<tr>
<td>SureFire Lysis Buffer (5X)</td>
<td>TGRLB10ML</td>
<td>TGRLB100ML</td>
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<tr>
<td>SureFire Activation Buffer (50X)</td>
<td>TGRAB10ML</td>
<td>TGRAB100ML</td>
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<td>SureFire Activation Buffer B (50X)</td>
<td>TGRABB10ML</td>
<td>TGRABB100ML</td>
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<tr>
<td>SureFire Activation Buffer C (50X)</td>
<td>TGRABC10ML</td>
<td>TGRABC100ML</td>
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<tr>
<td>SureFire Dilution Buffer (1X)</td>
<td>TGRDB10ML</td>
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Enough buffer is provided in the kits if following the standard protocol, but you may want to order more if using a different protocol.

### AlphaScreen SureFire Supplementary Control Lysates

Enough control lysates are provided in the kits if following the standard protocol, but if you need more for specific applications please contact us to request custom AlphaScreen SureFire control lysates.

### AlphaLISA SureFire Ultra Supplementary Buffers

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<td>SureFire Ultra Activation Buffer (50X)</td>
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<td>SureFire Ultra Activation Buffer C (50X)</td>
<td>ALSU-ABC-10mL</td>
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<tr>
<td>SureFire Ultra Dilution Buffer (1X)</td>
<td>ALSU-DB-10mL</td>
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Enough buffer is provided in the kits if following the standard protocol, but you may want to order more if using a different protocol.

### AlphaLISA SureFire Ultra Supplementary Beads

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<td>500 data points (60 µL)</td>
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<td>ALSU-ACAB-0.06mL</td>
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<td>ALSU-ASDB-1.2mL</td>
<td>ALSU-ACAB-1.2mL</td>
<td>ALSU-ACAB-6mL</td>
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<tr>
<td>50,000 data points (6 mL)</td>
<td>ALSU-ASDB-6mL</td>
<td>ALSU-ACAB-6mL</td>
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Enough beads are provided in the kits if following the standard protocol, but you may want to order more if using a different protocol.

### AlphaLISA SureFire Ultra Kits Supplementary Control lysates

Enough control lysates are provided in the kits if following the standard protocol, but if you need more for specific applications, they are available separately. For example, the phospho-ERK control lysate Part# is ALSU-PERK-A-L. Please consult our WEB site to find the references for other kits control lysates.

### AlphaLISA SureFire® Ultra Multiplex Supplementary Beads

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Enough beads are provided in the kits if following the standard protocol, but you may want to order more if using a different protocol. These beads can also be substituted to the AlphaLISA (Eu) beads in order to read the target in another wavelength channel.

### Beads for Biochemical Kinase Assays

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<th>Part Number</th>
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<td>10K data points</td>
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</table>
ToolBox beads, buffers, and control beads are available for you to setup your own assay and controls. Our local Field Application Specialists team is available to support you in establishing your own assays, or you can ask our OnPoint Custom Assays Development Team to develop the assay you need to your specifications. Alternatively, our custom labeling team is available to label your antibodies, proteins, peptides or small molecules in the technology of your choice. Please contact your PerkinElmer account manager or PerkinElmer sales office for more information.

### Alpha ToolBox

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<th>Donor Beads 10</th>
<th>AlphaLISA 615</th>
<th>AlphaPlex (Tb) 545</th>
<th>AlphaPlex (Sm) 645</th>
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### AlphaScreen Kits and Kit Components

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