<table>
<thead>
<tr>
<th>Assay Bead Region</th>
<th>Catalog #</th>
<th>Assay</th>
<th>Bead Region</th>
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<tr>
<td>Akt (Ser473)</td>
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<tr>
<td>ATP-2 (Thr71)</td>
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<tr>
<td>c-Jun (Ser63)</td>
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<tr>
<td>CREB (Ser133)</td>
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<tr>
<td>EGFR (Tyr)</td>
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<tr>
<td>EPK1 (Thr202/Tyr204)</td>
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<tr>
<td>EPK2 (Thr185/Tyr187)</td>
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<td>EPK1/2 (Thr202/Tyr204, Thr185/Tyr187)</td>
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<tr>
<td>GSK-3α/β (Ser21/Ser9)</td>
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<td>Histone H3 (Ser10)</td>
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<td>HSP27 (Ser78)</td>
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<td>IkB-α (Ser32/Ser36)</td>
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<td>IRS-1 (Ser363/Ser369)</td>
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<td>JNK (Thr183/Tyr185)</td>
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<td>MEK1 (Ser217/Ser221)</td>
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<tr>
<td>NF-κB p65 (Ser536)</td>
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<tr>
<td>PDGFR (Tyr751)</td>
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<td>p38 MAPK (Thr182/Tyr182)</td>
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<td>p53 (Ser15)</td>
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<td>p70 S6 kinase (Thr421/Ser424)</td>
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<tr>
<td>p90RSK (Thr389/Ser363)</td>
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<td>S6 Ribosomal Protein (Ser235/Ser236)</td>
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<td>Stat2 (Tyr689)</td>
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<td>Stat3 (Tyr705)</td>
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<td>Stat6 (Tyr641)</td>
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<td>TrkA (Tyr190)</td>
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</table>

For technical support, call your local Bio-Rad office, or in the US, call 1-800-4BIORAD (1-800-424-6723).

Bio-Plex Phosphoprotein Detection
Product Insert

For use with:
Bio-Plex phosphoprotein detection reagent kits
Catalog #171-304004 (one 96-well assay)
Catalog #171-304005 (ten 96-well assays) and Bio-Plex cell lysis kits
Catalog #171-304011 (one 96-well assay)
Catalog #171-304012 (ten 96-well assays)

For research use only.
Not for diagnostic procedures.
### Bio-Plex™ Phosphoprotein Assays

#### Multiplexable Assay Matrix

<table>
<thead>
<tr>
<th>Phosphoprotein</th>
<th>Tested Antibody Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>Akt</td>
<td>H, M, R</td>
</tr>
<tr>
<td>ATF-2</td>
<td>H, M, R</td>
</tr>
<tr>
<td>c-Jun</td>
<td>H, M, R, K</td>
</tr>
<tr>
<td>CREB</td>
<td>H, M, R</td>
</tr>
<tr>
<td>ERK2</td>
<td>H, M, R</td>
</tr>
<tr>
<td>ERK1/2</td>
<td>H, M</td>
</tr>
<tr>
<td>HSP27</td>
<td>H, K</td>
</tr>
<tr>
<td>IκB-α</td>
<td>H</td>
</tr>
<tr>
<td>JNK</td>
<td>H</td>
</tr>
<tr>
<td>MEK1</td>
<td>H, M, R</td>
</tr>
<tr>
<td>p38 MAPK</td>
<td>H, M</td>
</tr>
<tr>
<td>p90RSK</td>
<td>H, M, R</td>
</tr>
</tbody>
</table>

* H, human; M, mouse; R, rat; K, monkey.

### Bio-Plex Total Target Assays

#### Multiplexable Assay Matrix

<table>
<thead>
<tr>
<th>Total Target Assay</th>
<th>Tested Antibody Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>Akt</td>
<td>H, M, R</td>
</tr>
<tr>
<td>ATF-2</td>
<td>H, M, R</td>
</tr>
<tr>
<td>c-Jun</td>
<td>H, M, R, K</td>
</tr>
<tr>
<td>CREB</td>
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<td>H, M, R</td>
</tr>
<tr>
<td>ERK1/2</td>
<td>H, M</td>
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<tr>
<td>HSP27</td>
<td>H, K</td>
</tr>
<tr>
<td>IκB-α</td>
<td>H</td>
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<td>JNK</td>
<td>H</td>
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<tr>
<td>MEK1</td>
<td>H, M, R</td>
</tr>
<tr>
<td>p38 MAPK</td>
<td>H, M</td>
</tr>
<tr>
<td>p90RSK</td>
<td>H, M, R</td>
</tr>
</tbody>
</table>

* H, human; M, mouse; R, rat; K, monkey.

### Specifications

- **Reactive species**: Human, mouse, rat
- **Matrices**: Cell culture lysate, tissue lysate
- **Sample volume**: 25 µl
- **Limit of detection**: <10 µg/ml of total protein
- **Precision**:
  - Intra-assay CV <15%
  - Intra-assay CV <25%
- **Multiplexing capability**: Yes
- **Storage conditions**:
  - 2–8°C for coupled beads and detection antibodies
  - -20°C for lysates (shipped separately)
- **Stability**
  - 12 months

* Values vary by assay.

For expanded views of these matrices, request bulletin 3071 or visit us on the Web at www.bio-rad.com/products/phosphoproteins

### Instructions

See Bio-Plex phosphoprotein detection manual.