14-3-3 Family Antibody Sampler Kit

✔ 1 Kit (6 x 20 µl)

For Research Use Only. Not For Use In Diagnostic Procedures.

**Storage:** Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibodies.

**Recommended Antibody Dilutions:**
Western blotting 1:1000

Please visit www.cellsignal.com for validation data and a complete listing of recommended complementary products.

**Products Included**

<table>
<thead>
<tr>
<th>Antibody</th>
<th>Product #</th>
<th>Quantity</th>
<th>Mol. Wt.</th>
<th>Isotype</th>
</tr>
</thead>
<tbody>
<tr>
<td>14-3-3 β/ε Antibody</td>
<td>9636</td>
<td>20 µl</td>
<td>28 kDa</td>
<td>Rabbit IgG</td>
</tr>
<tr>
<td>14-3-3 γ (D1587) Rabbit mAb</td>
<td>5522</td>
<td>20 µl</td>
<td>27 kDa</td>
<td>Rabbit IgG</td>
</tr>
<tr>
<td>14-3-3 κ Antibody</td>
<td>9635</td>
<td>20 µl</td>
<td>28 kDa</td>
<td>Rabbit IgG</td>
</tr>
<tr>
<td>14-3-3 ζ/η/δ (D7H5) Rabbit mAb</td>
<td>7413</td>
<td>20 µl</td>
<td>28 kDa</td>
<td>Rabbit IgG</td>
</tr>
<tr>
<td>14-3-3 ε Antibody</td>
<td>5521</td>
<td>20 µl</td>
<td>27 kDa</td>
<td>Rabbit IgG</td>
</tr>
<tr>
<td>14-3-3 ζ Antibody</td>
<td>9638</td>
<td>20 µl</td>
<td>28 kDa</td>
<td>Rabbit IgG</td>
</tr>
<tr>
<td>Anti-rabbit IgG, HRP-linked Antibody</td>
<td>7074</td>
<td>100 µl</td>
<td></td>
<td>Goat</td>
</tr>
</tbody>
</table>

See www.cellsignal.com for individual component applications, species cross-reactivity, dilutions and additional application protocols.

**Description:** The 14-3-3 Family Antibody Sampler Kit provides an economical means to investigate the expression of various 14-3-3 isoforms within the cell. The kit includes enough antibody to perform two western blot experiments with each primary antibody.

**Background:** The 14-3-3 family of proteins plays a key regulatory role in signal transduction, checkpoint control, apoptotic and nutrient-sensing pathways (1,2). 14-3-3 proteins are highly conserved and ubiquitously expressed. There are at least seven isoforms, β, γ, ε, α, ζ, τ and η, that have been identified in mammals. The initially described α, β and δ isoforms are confirmed to be phosphorylated forms of β and ζ, respectively (3). Through their amino-terminal α helical region, 14-3-3 proteins form homo- or heterodimers that interact with a wide variety of proteins: transcription factors, metabolic enzymes, cytoskeletal proteins, kinases, phosphatases and other signaling molecules (3,4). The interaction of 14-3-3 proteins with their targets is primarily through a phospho-Ser/Thr motif. However, binding to divergent phospho-Ser/Thr motifs, as well as phosphorylation independent interactions has been observed (4). 14-3-3 binding masks specific sequences of the target protein, and therefore, modulates target protein localization, phosphorylation state, stability and molecular interactions (1-4).


**Sources:**


**Suppliers:**

Orders ■ 877-616-CELL (2355)
orders@cellsignal.com

Support ■ 877-678-TECH (8324)
info@cellsignal.com

Web ■ www.cellsignal.com

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