Evaluating Strategies to Normalise Biological Replicates of Western Blot Data: Supporting Information S1
Andrea Degasperi¹, Marc R. Birtwistle², Natalia Volinsky¹, Jens Rauch¹, Walter Kolch¹,³,⁴ and Boris N. Kholodenko¹,³,⁴
¹ Systems Biology Ireland, University College Dublin, Dublin, Republic of Ireland
² Department of Pharmacology and Systems Therapeutics, Icahn School of Medicine at Mount Sinai, New York, New York, United States of America
³ Conway Institute of Biomolecular & Biomedical Research, University College Dublin, Dublin, Republic of Ireland
⁴ School of Medicine and Medical Science, University College Dublin, Dublin, Republic of Ireland

Corresponding author, e-mail address: andrea.degasperi@ucd.ie

Data and statistical analysis of dilution experiments for BSA, ERK, RSK1 and mTOR
### BSA

#### Raw optical densities | Data points tested for linearity | Regression lines of each replicate | Coefficients of determination | SD | CV | S.E. | R² mean | R² SD | R² CV | R² S.E. | R² 1 if data is linear
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**ECL**

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<tr>
<th>ECL</th>
<th>Replicate 1</th>
<th>Replicate 2</th>
<th>Replicate 3</th>
<th>Data points tested for linearity</th>
<th>Regression lines of each replicate</th>
<th>Coefficients of determination</th>
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<tbody>
<tr>
<td></td>
<td>100</td>
<td>5766.933</td>
<td>6245.175</td>
<td>Full curve (7 samples)</td>
<td>y = 63.733x + 307.64</td>
<td>R^2 mean: 0.8766</td>
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<td>5174.104</td>
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<td>5 samples (5 dilutions, 32 fold)</td>
<td>y = 108.22x - 285.87</td>
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<td>12.5</td>
<td>1018.355</td>
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<td>y = 104.55x - 240.95</td>
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<td>302.092</td>
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<td>y = 54.733x + 321.49</td>
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<td>y = 55.061x + 821.98</td>
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<td>y = 64.037x + 1292.5</td>
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<td>32721.108</td>
<td>First 6 visible samples (5 dilutions, 32 fold)</td>
<td>y = 188.29x + 3813.2</td>
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<td>18756.137</td>
<td>27063.037</td>
<td>First 5 visible samples (4 dilutions, 16 fold)</td>
<td>y = 378.29x + 815.9</td>
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<td>1.5625</td>
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<td>9106.187</td>
<td>First 4 visible samples (2 dilutions, 8 fold)</td>
<td>y = 511.1x - 496.95</td>
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<td>316.435</td>
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<td>First 3 visible samples (2 dilutions, 4 fold)</td>
<td>y = 910.21x - 3064.8</td>
<td>R^2 S.E.: 0.7975</td>
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<td>y = 1227.5x - 3954.7</td>
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<tr>
<th>SD</th>
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<th>CV</th>
<th>coefficient of variation</th>
<th>S.E.</th>
<th>standard error</th>
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R^2 = 1 if data is linear