Supplementary Figure S10. In vitro xenograft responses to ABT-263 by co-culture assay. The percentages of live leukemia cells after exposure to various concentration of ABT263 (72 h) were measured by 7-AAD analysis using flow cytometry. Each line point represents an individual xenograft.
### Supplementary Figure S11. Formulae to determine assay sensitivity and specificity

<table>
<thead>
<tr>
<th></th>
<th>Positive</th>
<th>Negative</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patient (n=Y)</td>
<td>True +</td>
<td>False -</td>
</tr>
<tr>
<td>Normal (n=X)</td>
<td>False +</td>
<td>True -</td>
</tr>
</tbody>
</table>

Sensitivity = \( \frac{(\text{true} +)}{(\text{true} +) + (\text{false} -)} \times 100\% \)

Specificity = \( \frac{(\text{true} +)}{(\text{true} +) + (\text{false} +)} \times 100\% \)
Supplementary Figure S12. Live and dead cell analysis of each xenograft sample using 7-AAD staining and flow cytometry. Live or dead cells were determined using flow cytometry and analyzed as shown in Supplementary Figure S1.

Live cell % vs Dead cell %

Live cell number vs Counted live cells per well (co-culture on MSC)

Seeded cells per well (estimated) vs Counted live cells per well (co-culture on MSC)

* Considered as not supported

* Counted as not supported
Supplementary Figure S13. Comparison of ABT-263 responses for 5 xenograft samples in co-culture system versus single-cell suspension.