

Table S3.

| Pathway   | Modulator      | Stain: AF488 or FITC | Stain: PE         | Stain: AF4647 or APC |
|-----------|----------------|----------------------|-------------------|----------------------|
| Apoptosis | Etoposide      | BCL-2                | Cleaved PARP      | p-Chk2 (T68)         |
| Apoptosis | Etoposide      | Cleaved Caspase 3    | Cleaved PARP      | None                 |
| Apoptosis | Staurosporine  | BCL-2                | Cleaved PARP      | Cleaved Caspase 8    |
| Apoptosis | Staurosporine  | Cleaved Caspase 3    | Cleaved PARP      | None                 |
| Jak/Stat  | G-CSF          | p-Stat1 (Y701)       | p-Stat3 (Y705)    | p-Stat5 (Y694)       |
| Jak/Stat  | IFN $\alpha$   | p-Stat1 (Y701)       | p-Stat3 (Y705)    | p-Stat5 (Y694)       |
| Jak/Stat  | IFN $\gamma$   | p-Stat1 (Y701)       | p-Stat3 (Y705)    | p-Stat5 (Y694)       |
| Jak/Stat  | IL-10          | p-Stat1 (Y701)       | p-Stat3 (Y705)    | p-Stat5 (Y694)       |
| Jak/Stat  | IL-27          | p-Stat1 (Y701)       | p-Stat3 (Y705)    | p-Stat5 (Y694)       |
| Jak/Stat  | IL-6           | p-Stat1 (Y701)       | p-Stat3 (Y705)    | p-Stat5 (Y694)       |
| Jak/Stat  | None           |                      | p-Stat6 (Y641)    | p-Stat5 (Y694)       |
| PI3K      | FLT3L          | p-S6 (S235/236)      | p-Erk (T202/Y204) | p-Akt (S473)         |
| PI3K      | PMA            | p-S6 (S235/236)      | p-Creb (S133)     | p-Erk (T202/Y204)    |
| PI3K      | SCF            | p-S6 (S235/236)      | p-Erk (T202/Y204) | p-Akt (S473)         |
| PI3K      | Thapsigargin   | p-S6 (S235/236)      | p-Creb (S133)     | p-Erk (T202/Y204)    |
| PI3K      | SDF-1 $\alpha$ | p-S6 (S235/236)      | p-Erk (T202/Y204) | p-Akt (S473)         |