### FIGURE 1

| Protein   | Sample          | CASP-9       | CASP 3       |
|-----------|-----------------|--------------|--------------|
|           |                 | 0 K562-S CTRL | 1 259 962 K562-S CTRL |
|           |                 | 7 181 075 K562-S VOLASERTIB | 6 027 924 K562-S VOLASERTIB |
|           |                 | 53 949 945 K562-S DANUSERTIB | 43 228 823 K562-S DANUSERTIB |
|           |                 | 0 K562-R CTRL | 446 042 K562-R CTRL |
|           |                 | 27 472 066 K562-R VOLASERTIB | 6 490 217 K562-R VOLASERTIB |
|           |                 | 16 297 167 K562-R DANUSERTIB | 28 659 773 K562-R DANUSERTIB |

| Protein   | Sample          | BAX          | BETA ACTIN   |
|-----------|-----------------|--------------|--------------|
|           |                 | 0 K562-S CTRL | 55 797 116 K562-S CTRL |
|           |                 | 7807267 K562-S VOLASERTIB | 56 712 894 K562-S VOLASERTIB |
|           |                 | 6176368 K562-S DANUSERTIB | 54 793 045 K562-S DANUSERTIB |
|           |                 | 3 239 K562-R CTRL | 44 687 066 K562-R CTRL |
|           |                 | 59 356 359 K562-R VOLASERTIB | 48 366 258 K562-R VOLASERTIB |
|           |                 | 51 780 309 K562-R DANUSERTIB | 47 880 773 K562-R DANUSERTIB |

### FIGURE 2

| Protein   | Sample          | AURORA KINASE A | CHK1 |
|-----------|-----------------|-----------------|------|
|           |                 | 49 232 664 K562-S CTRL | 49 564 087 K562-S CTRL |
|           |                 | 6 957 317 K562-S VOLASERTIB | 45 191 087 K562-S VOLASERTIB |
|           |                 | 11 696 510 K562-S DANUSERTIB | 87 575 037 K562-S DANUSERTIB |
|           |                 | 80 732 208 K562-R CTRL | 47 181 246 K562-R CTRL |
|           |                 | 18 484 187 K562-R VOLASERTIB | 50 138 936 K562-R VOLASERTIB |
|           |                 | 22 765 279 K562-R DANUSERTIB | 78 385 551 K562-R DANUSERTIB |

| Protein   | Sample          | P-AURORA KINASE A(T288) | P-CHK1(S317) |
|-----------|-----------------|-------------------------|--------------|
|           |                 | 66 159 915 K562-S CTRL | 13 313 681 K562-S CTRL |
|           |                 | 0 K562-S VOLASERTIB | 53 724 501 K562-S VOLASERTIB |
|           |                 | 0 K562-S DANUSERTIB | 82 606 016 K562-S DANUSERTIB |
|           |                 | 26 644 380 K562-R CTRL | 5 479 903 K562-R CTRL |
|           |                 | 0 K562-R VOLASERTIB | 10 025 752 K562-R VOLASERTIB |
|           |                 | 0 K562-R DANUSERTIB | 40 899 723 K562-R DANUSERTIB |

| Protein   | Sample          | PLK1          | CHK2          |
|-----------|-----------------|--------------|--------------|
|           |                 | 71 757 007 K562-S CTRL | 51 675 208 K562-S CTRL |
|           |                 | 56 880 856 K562-S VOLASERTIB | 57 183 894 K562-S VOLASERTIB |
|           |                 | 17 007 167 K562-S DANUSERTIB | 76 141 116 K562-S DANUSERTIB |
|           |                 | 76 429 936 K562-R CTRL | 75 007 773 K562-R CTRL |
|           |                 | 57 246 350 K562-R VOLASERTIB | 80 480 459 K562-R VOLASERTIB |
|           |                 | 9 887 489 K562-R DANUSERTIB | 104 124 673 K562-R DANUSERTIB |

| Protein   | Sample          | P-PLK1(T210) | P-CHK2(T68) |
|-----------|-----------------|-------------|-------------|
|           |                 | 74 696 697 K562-S CTRL | 16 077 711 K562-S CTRL |
|           |                 | 11 016 673 K562-S VOLASERTIB | 96 964 238 K562-S VOLASERTIB |
|           |                 | 11 102 451 K562-S DANUSERTIB | 78 000 116 K562-S DANUSERTIB |
|           |                 | 66 098 886 K562-R CTRL | 24 869 317 K562-R CTRL |
|           |                 | 6 701 401 K562-R VOLASERTIB | 59 499 894 K562-R VOLASERTIB |
|           |                 | 18 490 421 K562-R DANUSERTIB | 45 437 309 K562-R DANUSERTIB |
**FIGURE 2**

| CYCLIN B1 | P-CDK1(Y15) |
|-----------|-------------|
| 17 247 430 K562-S CTRL | 15 769 459 K562-S CTRL |
| 26 612 522 K562-S VOLASERTIB | 34 352 915 K562-S VOLASERTIB |
| 14 301 986 K562-S DANUSERTIB | 66 190 409 K562-S DANUSERTIB |
| 80 694 350 K562-R CTRL | 11 555 731 K562-R CTRL |
| 50 748 158 K562-R VOLASERTIB | 22 709 874 K562-R VOLASERTIB |
| 66 380 329 K562-R DANUSERTIB | 84 870 744 K562-R DANUSERTIB |

| CYCLIN B1(S133) | BETA ACTIN |
|-----------------|------------|
| 77 235 279 K562-S CTRL | 50 120 924 K562-S CTRL |
| 2 650 489 K562-S VOLASERTIB | 59 254 359 K562-S VOLASERTIB |
| 9 485 823 K562-S DANUSERTIB | 61 766 702 K562-S DANUSERTIB |
| 55 734 522 K562-R CTRL | 67 151 803 K562-R CTRL |
| 102 192 K562-R VOLASERTIB | 67 312 832 K562-R VOLASERTIB |
| 4 629 368 K562-R DANUSERTIB | 77 311 409 K562-R DANUSERTIB |

| CDC25C | |
|--------||
| 50 189 208 K562-S CTRL | |
| 44 745 187 K562-S VOLASERTIB | |
| 28 368 208 K562-S DANUSERTIB | |
| 73 962 037 K562-R CTRL | |
| 16 257 702 K562-R VOLASERTIB | |
| 10 969 317 K562-R DANUSERTIB | |

| CDC25C(S198) | |
|--------------||
| 72 595 622 K562-S CTRL | |
| 22 136 016 K562-S VOLASERTIB | |
| 21 358 702 K562-S DANUSERTIB | |
| 68 257 856 K562-R CTRL | |
| 41 129 794 K562-R VOLASERTIB | |
| 24 910 066 K562-R DANUSERTIB | |

| WEE1 | |
|------||
| 73 298 108 K562-S CTRL | |
| 83 748 454 K562-S VOLASERTIB | |
| 64 116 664 K562-S DANUSERTIB | |
| 82 323 614 K562-R CTRL | |
| 43 123 714 K562-R VOLASERTIB | |
| 72 941 128 K562-R DANUSERTIB | |

| P-WEE1(S642) | |
|--------------||
| 10 252 974 K562-S CTRL | |
| 83 678 258 K562-S VOLASERTIB | |
| 92 264 765 K562-S DANUSERTIB | |
| 12 254 530 K562-R CTRL | |
| 50 306 258 K562-R VOLASERTIB | |
| 63 099 773 K562-R DANUSERTIB | |

| CDK1 | |
|------||
| 17 583 945 K562-S CTRL | |
| 27 577 747 K562-S VOLASERTIB | |
| 65 279 212 K562-S DANUSERTIB | |
| 17 346 359 K562-R CTRL | |
| 52 801 593 K562-R VOLASERTIB | |
| 46 512 714 K562-R DANUSERTIB | |
### FIGURE 4 C
**P-H2AX(Y143)**

|           | BETA ACTIN |
|-----------|-----------|
| 0 CTRL    | 55 797 116 |
| 358 263   | AZD1775   |
| 14 661 276| DANUSERTIB|
| 1 828 163 | VOLASERTIB|
| 14 935 376| A+D       |
| 30 962 326| A+V       |

### FIGURE 4 D
**P-H2AX(Y143)**

|           | BETA ACTIN |
|-----------|-----------|
| 0 CTRL    | 22 276 589 |
| 14 786 033| AZD1775   |
| 3 613 255 | DANUSERTIB|
| 6 106 033 | VOLASERTIB|
| 19 163 225| A+D       |
| 27 656 276| A+V       |

### FIGURE 5 C
**WEE1**

|           | UNCLEAVED PARP |
|-----------|----------------|
| 22 371 832| CTRL           |
| 22 792 903| AZD1775        |
| 26 062 539| DANUSERTIB     |
| 30 423 489| VOLASERTIB     |
| 13 422 246| A+D            |
| 16 963 175| A+V            |

|           | CLEAVED PARP  |
|-----------|---------------|
| 3 971 154 | CTRL          |
| 0 AZD1775 |               |
| 11 862 347| DANUSERTIB    |
| 28 117 953| VOLASERTIB    |
| 0 A+D     |               |
| 0 A+V     |               |

**AURORA KINASE A**

|           | UNCLEAVED CASPASE-9 |
|-----------|---------------------|
| 24 501 024| CTRL                |
| 15 752 418| AZD1775             |
| 8 607 397 | DANUSERTIB          |
| 7 641 054 | VOLASERTIB          |
| 6 401 640 | A+D                 |
| 6 692 296 | A+V                 |

|           | CLEAVED CASPASE-9  |
|-----------|-------------------|
| 22 077 761| CTRL              |
| 28 516 660| AZD1775           |
| 2 273 891 | DANUSERTIB        |
| 2 089 841 | VOLASERTIB        |
| 1 518 234 | A+D               |
| 1 890 184 | A+V               |
### FIGURE 5 C

**UNCLEAVED CASPASE-3**

|          | CTRL | AZD1775 | DANUSERTIB | VOLASERTIB | A+D | A+V |
|----------|------|---------|------------|------------|-----|-----|
| 14 534 004 | 0    | 17 951 468 | 4 003 690 | 7 340 397 | 27 195 782 | 23 596 832 |
| 8 488 225  |      |         |            |            |     |     |
| 33 920 075  |      |         |            |            |     |     |
| 26 439 882  |      |         |            |            |     |     |
| 4 334 347  |      |         |            |            |     |     |
| 25 482 368  |      |         |            |            |     |     |

**CLEAVED CASPASE-3**

|          | CTRL | AZD1775 | DANUSERTIB | VOLASERTIB | A+D | A+V |
|----------|------|---------|------------|------------|-----|-----|
| 30 731 933 | 0    | 18 935 246 | 23 176 489 | 17 407 288 | 27 587 589 | 35 261 589 |
| 15 594 953  |      |         |            |            |     |     |
| 9 475 125   |      |         |            |            |     |     |
| 30 351 125  |      |         |            |            |     |     |
| 24 187 832  |      |         |            |            |     |     |
| 13 856 468  |      |         |            |            |     |     |
| 13 318 276  |      |         |            |            |     |     |

**BAX**

|          | CTRL | AZD1775 | DANUSERTIB | VOLASERTIB | A+D | A+V |
|----------|------|---------|------------|------------|-----|-----|
| 0        |      |         |            |            |     |     |
| 4 848 225 |      |         |            |            |     |     |
| 33 920 075|      |         |            |            |     |     |
| 26 439 882|      |         |            |            |     |     |
| 4 334 347 |      |         |            |            |     |     |
| 25 482 368|      |         |            |            |     |     |

### FIGURE 5 D

**WEE1**

|          | CTRL | AZD1775 | DANUSERTIB | VOLASERTIB | A+D | A+V |
|----------|------|---------|------------|------------|-----|-----|
| 15 594 953 | 18 935 246 | 23 176 489 | 17 407 288 | 27 587 589 | 35 261 589 |
| 9 475 125  |      |         |            |            |     |     |
| 30 351 125 |      |         |            |            |     |     |
| 24 187 832 |      |         |            |            |     |     |
| 13 856 468 |      |         |            |            |     |     |
| 13 318 276 |      |         |            |            |     |     |

**UNCLEAVED PARP**

|          | CTRL | AZD1775 | DANUSERTIB | VOLASERTIB | A+D | A+V |
|----------|------|---------|------------|------------|-----|-----|
| 8 882 832 | 832 669 | 27 570 861 | 9 455 569 | 19 485 225 | 27 587 589 | 35 261 589 |
| 23 177 953 |      |         |            |            |     |     |
| 5 728 296  |      |         |            |            |     |     |
| 0 A+D     |      |         |            |            |     |     |
| 12 531 075|      |         |            |            |     |     |

**P-WEES642**

|          | CTRL | AZD1775 | DANUSERTIB | VOLASERTIB | A+D | A+V |
|----------|------|---------|------------|------------|-----|-----|
| 22 466 368 | 9 612 054 | 9 373 276 | 23 506 761 | 29 102 619 | 14 656 296 |
| 14 958 016 |      |         |            |            |     |     |
| 13 194 359 |      |         |            |            |     |     |
| 6 899 489  |      |         |            |            |     |     |
| 6 475 861  |      |         |            |            |     |     |
| 5 388 640  |      |         |            |            |     |     |

**AURORA KINASE A**

|          | CTRL | AZD1775 | DANUSERTIB | VOLASERTIB | A+D | A+V |
|----------|------|---------|------------|------------|-----|-----|
| 17 291 317 | 977 820 | 11 959 953 | 21 000 548 | 25 473 033 | 28 925 912 | 14 656 296 |
| 26 958 711 |      |         |            |            |     |     |
| 784 305    |      |         |            |            |     |     |
| 2 239 376  |      |         |            |            |     |     |
| 1 906 891  |      |         |            |            |     |     |
| 1 330 598  |      |         |            |            |     |     |

**UNCLEAVED CASPASE-9**

|          | CTRL | AZD1775 | DANUSERTIB | VOLASERTIB | A+D | A+V |
|----------|------|---------|------------|------------|-----|-----|
| 15 594 953 | 18 935 246 | 23 176 489 | 17 407 288 | 27 587 589 | 35 261 589 |
| 9 475 125  |      |         |            |            |     |     |
| 30 351 125 |      |         |            |            |     |     |
| 24 187 832 |      |         |            |            |     |     |
| 13 856 468 |      |         |            |            |     |     |
| 13 318 276 |      |         |            |            |     |     |

**CLEAVED CASPASE-9**

|          | CTRL | AZD1775 | DANUSERTIB | VOLASERTIB | A+D | A+V |
|----------|------|---------|------------|------------|-----|-----|
| 22 466 368 | 9 612 054 | 9 373 276 | 23 506 761 | 29 102 619 | 14 656 296 |
| 14 958 016 |      |         |            |            |     |     |
| 13 194 359 |      |         |            |            |     |     |
| 6 899 489  |      |         |            |            |     |     |
| 6 475 861  |      |         |            |            |     |     |
| 5 388 640  |      |         |            |            |     |     |

**P-AURORA KINASE A (T288)**

|          | CTRL | AZD1775 | DANUSERTIB | VOLASERTIB | A+D | A+V |
|----------|------|---------|------------|------------|-----|-----|
| 17 291 317 | 977 820 | 11 959 953 | 21 000 548 | 25 473 033 | 28 925 912 | 14 656 296 |
| 26 958 711 |      |         |            |            |     |     |
| 784 305    |      |         |            |            |     |     |
| 2 239 376  |      |         |            |            |     |     |
| 1 906 891  |      |         |            |            |     |     |
| 1 330 598  |      |         |            |            |     |     |

**BETA ACTIN**

|          | CTRL | AZD1775 | DANUSERTIB | VOLASERTIB | A+D | A+V |
|----------|------|---------|------------|------------|-----|-----|
| 0        |      |         |            |            |     |     |
| 31 367 447 | 34 971 640 | 33 398 347 | 28 138 296 | 31 863 690 | 35 261 589 |
| 32 510 891 |      |         |            |            |     |     |
| 33 143 083 |      |         |            |            |     |     |
| 9 047 054  |      |         |            |            |     |     |
| 15 119 104 |      |         |            |            |     |     |
**FIGURE 5 D**

| UNCLEAVED CASPASE-3 | BAX      |
|---------------------|----------|
| 10 225 761          | 0        |
| 29 642 861          | 5 943 861|
| 19 323 690          | 2 887 447|
| 32 231 012          | 19 151 175|
| 26 028 497          | 14 600 246|
| 11 847 761          | 10 170 761|

| CLEAVED CASPASE-3  | BETA ACTIN |
|---------------------|------------|
| 0                   | 29 459 861 |
| 19 180 418          | 23 638 497 |
| 15 670 761          | 17 911 397 |
| 21 535 004          | 20 650 033 |
| 7 657 569           | 22 424 983 |
| 24 298 832          | 20 119 569 |