**S2 Table:** Cell line specificities of transitions and references to experiments. For transitions, references and specifications of cell lines that have been used in relevant *in vivo* experiments are given.

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| --- | --- | --- |
| **Transition name** | **References** |  |
| Apoptosis | Reed & Green, 2011 [20]  Taylor *et al*, 2008 [24] | Mammalian (mainly), review  Human, HeLa cells, review |
| Apo\_XIAP\_inhib | Galban & Duckett, 2010 [8]  Verhagen *et al*, 2000 [29] | Human, mice, mammals  Human, mouse, mammalian |
| BAX\_inhib | Shore & Nguyen, 2008 [22]  Ola *et al*, 2011 [17] | Mammalian  Mammalian, review |
| CASP3\_inhib | Gyrd-Hansen & Meier, 2010 [9]  Schile *et al*, 2008 [21] | Mammalian  Human, mice, mammalian |
| CI\_diss, T18, T19, T41 | Draber *et al*, 2015 [6] | Human, mice, K562 cells, A549 cells HeLa cells |
| CIIa\_inhib, Pc8\_inhib, T47 | Dillon *et al*, 2012 [5]  Tsuchiya *et al*, 2015 [26] | Human, mice  Human, mice, mammalian, review |
| Necroptosis | Wang *et al*, 2014 [30]  Cai *et al*, 2014 [2] | Human liver cells, mice  Human |
| Pc9\_inhib | Gyrd-Hansen & Meier, 2010 [9] | Mammalian |
| RIP1:RIP3\_inhib | Oberst *et al*, 2011 [15]  Tsuchiya *et al*, 2015 [26] | Mice  Human, mice, mammalian, review |
| T1, T2, T3, T4, T5, T6 | Ting & Bertrand, 2016 [25]  Varfolomeev & Vucic, 2018 [28] | Human, mice  Mammalian |
| T7, T8, T9, T10, T11, T12, T15, T16, T17 | Kensche *et al*, 2012 [11] | Human |
| T13 | Zhang *et al*, 2014 [32]  Peltzer *et al*, 2016 [19] | Human, mice  Mammalian, review |
| T14 | Haas *et al*, 2009 [10]  Peltzer *et al*, 2016 [19] | Human, HeLa cells  Mammalian, review |
| T20, T21 | Draber *et al,* 2015 [6]  Kovalenko *et al*, 2003 [12] | Human, K562 and HeLa cells  Human |
| T22, T25 | Varfolomeev & Vucic, 2018 [28] | Mammalian |
| T23 | Brown *et al*., 1993 [1]  Varfolomeev & Vucic, 2018 [28] | Human T lymphocytes and monocytes,  mammalian |
| T24 | Oeckinghaus & Ghosh, 2009 [16]  Varfolomeev & Vucic, 2018 [28] | Human, mice, mammalian  Human |
| T26, T27 | Pahl, 1999 [18]  Brown *et al*, 1993 [1] | Human  Human |
| T33 | Micheau *et al*, 2001 [13] | Human, HeLa and HT1080 (human fibrosarcoma) cells |
| T37, T38, T39, T40 | Brown *et al*, 1993 [1] | Human T lymphocytes and monocytes |
| T42, T43, T44,T45, T48, T53, T54 | Dickens *et al,* 2012 [4] | Human, mammalian |
| T46 | Reed & Green, 2011 [20] | Mammalian (mainly), review |
| T51 | Sun *et al*, 2002 [23] | Human, mice |
| T52 | Murphy *et al*, 2013 [14]  Vanden Berghe *et al*, 2014 [27] | Mice  Human, mammalian, review |
| T55, T56, T57, T58 | Feokistova *et al*, 2011 [7] | Human, mammalian |
| T59, T60 | Oberst *et al*, 2011 [15] | Human, mice |
| T61, T62, T63 | Reed & Green, 2011 [20] | Mammalian (mainly), review |
| T64 | Gyrd-Hansen & Meier, 2010 [9] | Mammalian |
| T65, T66, T67, T69, T70 | Chipuk & Green, 2008 [3]  Ola *et al*, 2011 [17] | Human, mammalian  Mammalian, review |
| T68 | Shore & Nguyen, 2008 [22]  Chipuk & Green, 2008 [3]  Ola *et al*, 2011 [17] | Mammalian  Human, mammalian  Mammalian, review |
| T71 | Reed & Green, 2011 [20]  Ola *et al*, 2011 [17] | Mammalian (mainly), review  Mammalian, review |
| T72, T73, T74 | Würstle *et al*, 2012 [31] | Mammalian |
| T75 | Gyrd-Hansen & Meier, 2010 [9] | Mammalian |
| T76 | Verhagen *et al*, 2000 [29]  Ola *et al*, 2011 [17] | Human, mouse, mammalian  Mammalian, review |

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