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Giancotti, Department of Cancer Biology, at U.T. MD Anderson Cancer Center, USA.

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Additionally, decreased expression or inactivating mutations in death receptor signaling pathway proteins, like CD95, can Page 16/31

decrease apoptosis in malignant cells. 4
Phospho-p53 (Ser33) Antibody #2526:
Immunohistochemical analysis of paraffinembedded human breast carcinoma, using Phospho-p53 (Ser33) Antibody.

Cell Death and Disease | Cell Signaling Technology

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In some cases, such as a viral infection or cancer, the cell 's normal checks and balances fail. External signaling can also initiate apoptosis. Apoptosis is also essential for normal embryological development; unnecessary cells that appear during the early stages of development will eventually be eliminated through cell signaling.

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23. Authors Jing Zhang 1 ...

Membrane-bound TNF mediates
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Cancer cells may also introduce defects in
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the downstream signaling itself, or the proteins involved in apoptosis, which would also prevent proper apoptosis (1,2).

Apoptosis is also significant in the Hallmark Evading Growth Suppressors, but that refers to apoptosis triggered by external signals.

Hallmarks of Cancer: Resisting Cell Death
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Immunogenicity of necroptotic cancer cells The combination of recombinant tumor necrosis factor-a, a synthetic second mitochondria derived activator of caspase (SMAC) mimetic, and the caspase inhibitor z-VAD-FMK (TSZ) 20 can induce cell death in TC-1 lung cancer cells, as well as in EL4 thymoma cells, causing the cells to stain Page 27/31

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