

51 BLIM 10 TUMOR CELL LINE

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ABSTRACT

A variety of tumors are potentially immunogenic but do not stimulate an effective anti-tumor immune response in vivo. Tumors may be capable of delivering antigen-specific signals to T cells, but may not deliver the costimulatory signals necessary for full activation of T cells. Expression of the costimulatory ligand B7 on melanoma cells was found to induce the rejection of a murine melanoma in vivo. This rejection was mediated by CD8+ T cells; CD4+ T cells were not required. These results suggest that B7 expression renders tumor cells capable of effective antigen presentation, leading to their eradication in vivo.

Such a tumor cell line is available from research conducted at UC Berkeley.

Reference:

SE Townsend and JP Allison. 1993. Tumor Rejection After Direct Costimulation of CD8+ T Cells by B7-Transfected Melanoma Cells. Science 259:368-70.

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OTHER INFORMATION

KEYWORDS

research tool

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