Anti - gp100 T - cell Secreting Hybridoma [BUSA14 cell line]

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Overview

Hybridoma cell line [clone BUSA14] which generates lacZ inducible CD8+ T -cells capable of recognizing both human and mouse gp100(25-33) melanoma antigens presented on dendritic and tumor cell lines.

Relevance: This hybridoma expresses a variety of membrane T cell markers and secretes IL-2 and TNFÎ±. Thus, BUSA14 offers a quantifiable, cheap, and straightforward tool for studying peptide presentation by MHC-I molecules on the cell surface.

Production details (How was the model produced): Total splenocytes were isolated from the spleens of Pmel-1 mice and grown in lymphocyte medium. As sensitizing cells, two ml were incubated with 30 Âµg/ml hgp10025 33 peptide for 2 hours, diluted in 10 ml lymphocyte medium, and added to the flasks. Four days later, Cells were washed once with PBS, separated on Lympholyte-M and fused with the BWZ.36/CD8Î± cells using polyethylene glycol. For additional details, see the publication.

Host: mice

Tissue: lymphocytes

Conditional: yes, *inducible LacZ*

References

Cafri G, Sharbi-Yunger A, Tzehoval E, Eisenbach L. Production of LacZ Inducible T Cell Hybridoma Specific for Human and Mouse gp10025â€“33 Peptides. Cobbold M, ed. *PLoS ONE*. 2013;8(2):e55583. doi:10.1371/journal.pone.0055583 [1]