

ImmunoTools IT-Box-139 Award 2012



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The Influence of Tolerogenic Signals Derived from Apoptotic Cells on Spontaneous Tumor Growth and the anti-Tumor Immune Response

Immune tolerance to autoantigens is essential to prevent autoimmune diseases. Apoptotic cells, which arise continuously during development and tissue homeostasis are a major source of autoantigens. Surface molecules on apoptotic cells mediate engulfment as well as suppression of immune responses against apoptotic cell-derived self antigens. We have identified an intracellular protein which is likely a tolerogenic signal of apoptotic cells towards dendritic cells (tolerogenic signal on apoptotic cells 1 - TSA 1). This project aims at clarifying the role of TSA in rejection of immunogenic tumors. To this end we crossed TSA-1 knockout-mice to RET tg mice which develop spontaneous melanomas. In this model we would like to analyze tumor growth as well as the phenotype of lymphocytes and tumor cells within primary tumors and lymphatic tissue. Therefore, FACS-antibodies against a wide array of cellular surface molecules (T cell marker - CD4, CD8, CD25, Treg... DC-marker - CD80, CD86, PD-L1..., myeloid derived suppressor cells, macrophages, NK cells and tumor surface marker) are highly warranted. Furthermore, we would like to test the influence of TSA-1 blocking antibodies on tumor growth and the cellular immune parameters mentioned.

ImmunoTools IT-Box-139 for Alexandra Kurz includes 100 antibodies

FITC - conjugated anti-human CD1a, CD3, CD4, CD5, CD6, CD7, CD8, CD14, CD15, CD16, CD19, CD21, CD25, CD29, CD35, CD36, CD41a, CD42b, CD45, CD45RA, CD45RB, CD45RO, CD49d, CD53, CD57, CD61, CD63, CD80, CD86, HLA-DR, IL-6, Control-IgG1, Control-IgG2a, Control-IgG2b, Annexin V

PE - conjugated anti-human CD3, CD4, CD8, CD11b, CD15, CD14, CD18, CD19, CD20, CD21, CD22, CD31, CD33, CD38, CD40, CD45, CD45RB, CD50, CD52, CD56, CD58, CD62p, CD72, CD95, CD105, CD147, CD177, CD235a, HLA-ABC, IL-6, Control-IgG1, Control-IgG2a, Control-IgG2b, Annexin V

PE/Dy647 -tandem conjugated anti-human CD3, CD4, CD8, CD14, CD19, CD20, CD25, CD54

APC -conjugated anti-human CD2, CD3, CD4, CD8, CD10, CD11a, CD11c, CD14, CD16, CD27, CD37, CD42b, CD44, CD45, CD59, CD62L, CD69, CD71, IL-6, Control-IgG1, Control-IgG2a, Control-IgG2b, Annexin V

[DETAILS](#)