

ImmunoTools IT-Box-139 Award 2012



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Quantification of pDC in SLE patients

Systemic Lupus Erythematosus (SLE) is a chronic multifactorial autoimmune disease caused by the breakdown of immune tolerance against nuclear autoantigens, but its actual mechanisms are not yet fully elucidated. The incidence of the disease is about 4-5 cases per 100.000 people, being more prevalent on women than men.

Dendritic Cells (DC) are professional antigen presenting cells (APC) and play a major role in both immune response and tolerance triggering against a specific antigen. Therefore, they might be of great importance on SLE onset.

My PhD project is focused on the immune characterization and quantification of dendritic cells in SLE. Our main goal is the quantification and phenotype comparison of the pDC subset (plasmacytoid Dendritic Cells) between patients and healthy individuals. In order to do that, flow cytometry analysis of blood samples are going to be performed with the help of fluorochrome-conjugated antibodies, such as the subset markers CD4 and HLA-DR, the activation markers CD86, CD69, CD40 and CD25, and the other immune cell panning markers CD3, CD45 and CD19 to be used throughout the gating strategy.

ImmunoTools IT-Box-139 for Marta Monguió 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

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