ImmunoTools IT-Box-139 Award 2012



Denise G. Triglia van Nierop

PhD Supervisor: Dr. Aideen Long

Trinity College Dublin, Cell and Molecular Biology Group Trinity Centre for Health Sciences – Institute of Molecular Medicine, St. James Hospital, Dublin, Ireland

A role for PKCn in T cell biology

Our research group is interested in the singnalling pathways involved in several aspects of the T cell biology, such as migration, activation and apoptosis. My project in particular, is focused on studying the PKC isoform PKCn and its role in human T cell activation and differentiation. The special selection of antibodies in the IT-Box-139 from ImmunoTools includes several important components involved in the T cell biology. Access to this set of antibodies would improve the quality of my work and would make it possible to test a larger number of target molecules that could possibly be interacting with PKCn in the T cell. Using the CD3, CD4 and CD8 antibodies I could look at the effect of PKCn in the different subsets of T cells. Moreover, when looking at PKC_n in the context of T cell differentiation, the markers CD45R0, CD45RA and CD45RB would be indispensable. In relation to T cell activation, antibodies against CD11a, CD11c, CD44, CD25 and CD69 would enrich the data generated in this context. I could also use of the Annexin V antibody and look for an involvment of PKCn in apoptosis. I am also interested in studying PKCn in NK and NKT cells, in which the CD56 and CD3 antibodies would be very useful. In addition to all that, it would be fundamental the use of the different Control antibodies in the experiments.

ImmunoTools IT-Box-139 for Denise G. Triglia van Nierop include 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, CD10, 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