

ImmunoTools IT-Box-139 Award 2012



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Vascular and Metabolic Functions of CD36

CD36 is a membrane bound glycoreceptor which belongs to class B of scavenger receptors. It has variety of functions in different cell types and tissues due to the wide range of ligands it can bind. It serves as a receptor for ligands including modified (oxidized) form of low density lipoproteins (LDL), apoptotic cells, gram positive bacteria cell wall, malaria infected erythrocytes and thrombospondin. Thus, there are numerous clinical conditions that involve CD36 such as malaria, atherosclerosis, coagulopathy, Alzheimer's disease and hypertension.

We are interested in defining the role of CD36 in vessels and in adipose tissue in order to be able to explain the mechanism of the clinical conditions where CD36 is primarily involved.

Along with the *in vivo* experiments, cellular investigations are also carried on where primary adipocytes for the presence of some surface markers along with the receptor CD36 are analyzed and antibodies from **ImmunoTools** IT-Box-139 will be used for this purpose.

ImmunoTools IT-Box-139 for Sila Appak 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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