

tis; anti-citrullinated protein antibody seropositivity; rheumatoid factor seropositivity measurement mul  
 Autoimmune Ankylosing spondylitis\_neg  
 MAGIC\_FI-EUR(negative control trait)\_neg  
   MAGIC\_FG-EUR\_neg  
     diamante\_T2D-European\_neg  
     cardio-ukbb\_CAD(negative control trait)\_pos  
     cardio-ukbb\_CAD(negative control trait)\_neg  
     Autoimmune thyroid Graves disease\_neg  
     Autoimmune thyroid Hashimotos disease\_neg  
     Autoimmune Celiac\_neg  
       MAGIC\_FG-EUR\_pos  
     MAGIC\_FI-EUR(negative control trait)\_pos  
     Autoimmune thyroid Graves disease\_pos  
     Autoimmune Inflammatory bowel disease\_pos  
     diamante\_T2D-European\_pos  
       MAGIC\_HbA1c-EUR\_pos  
     all rheumatoid arthritis\_EAS\_neg  
       childhood-bmi\_7years\_neg  
       childhood-bmi\_3years\_neg  
     Autoimmune thyroid Hashimotos disease\_pos  
     Autoimmune Inflammatory bowel disease\_neg  
     Autoimmune Ankylosing spondylitis\_pos  
     all rheumatoid arthritis\_EAS\_pos  
       MAGIC\_HbA1c-EUR\_neg  
 HVEM on CD4+ panel\_Maturation stages of T cell\_pos  
   CD28 on CD4 Treg panel\_Treg\_pos  
   CD19 on memory B cell panel\_B cell\_pos  
   CD45 on lymphocyte panel\_TBNK\_pos  
   CD25 on CD24+ CD27+ panel\_B cell\_pos  
   CD123 on plasmacytoid DC panel\_cDC\_pos  
   CD8 on CD8br panel\_TBNK\_neg  
   CD4 on activated Treg panel\_Treg\_neg  
   CD123 on plasmacytoid DC panel\_cDC\_neg  
   CD25 on CD4 Treg panel\_Treg\_neg  
   HLA DR on monocyte panel\_Monocyte\_pos  
   CD20 on memory B cell panel\_B cell\_pos  
   BAFF-R on naive CD4+ panel\_Maturation stages of T cell\_pos  
   CD38 on IgD+ CD38dim panel\_B cell\_neg  
     childhood-bmi\_3years\_pos  
     childhood-bmi\_7years\_pos  
   BAFF-R on memory B cell panel\_B cell\_pos  
   CD25 on CD24+ CD27+ panel\_B cell\_neg  
 Anti-body seropositivity; rheumatoid factor seropositivity measurement mul  
 BAFF-R on memory B cell panel\_B cell\_neg  
 HVEM on CD4+ panel\_Maturation stages of T cell\_neg  
   CD28 on CD4 Treg panel\_Treg\_neg  
   CD19 on memory B cell panel\_B cell\_neg  
   CD45 on lymphocyte panel\_TBNK\_neg  
   Autoimmune\_Celiac\_pos  
   CD4 on activated Treg panel\_Treg\_pos  
   CD25 on CD4 Treg panel\_Treg\_pos  
   CD38 on IgD+ CD38dim panel\_B cell\_pos  
 CCR7 on naive CD4+ panel\_Maturation stages of T cell\_neg  
   HLA DR on monocyte panel\_Monocyte\_neg  
   CD8 on CD8br panel\_TBNK\_pos  
   CD20 on memory B cell panel\_B cell\_neg