

Figure S1. For NSOI, CIT revealed a one-tier system based on *AQP1* expression, with the appertaining cut-off of >138 counts identifying NSOI cases.

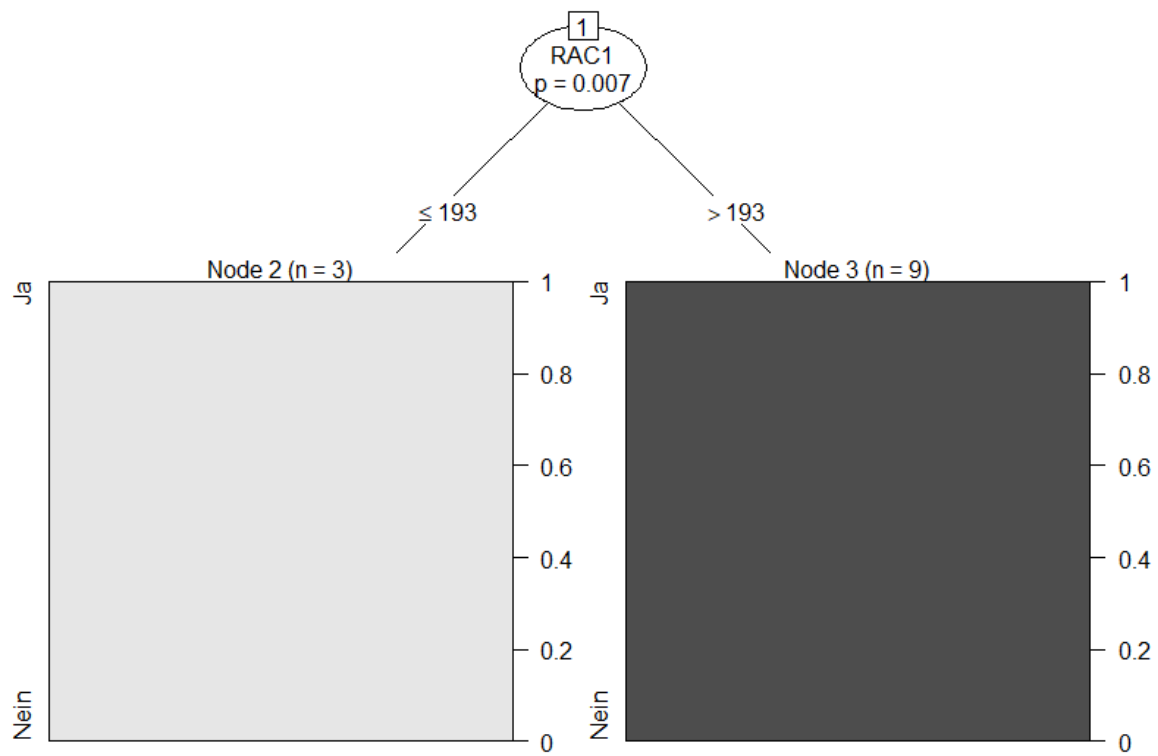


Figure S2. For lymphoma, CIT again revealed a one-tier system based on *RAC1* expression, with the appertaining cut-off of ≤ 193 counts identifying lymphoma cases.

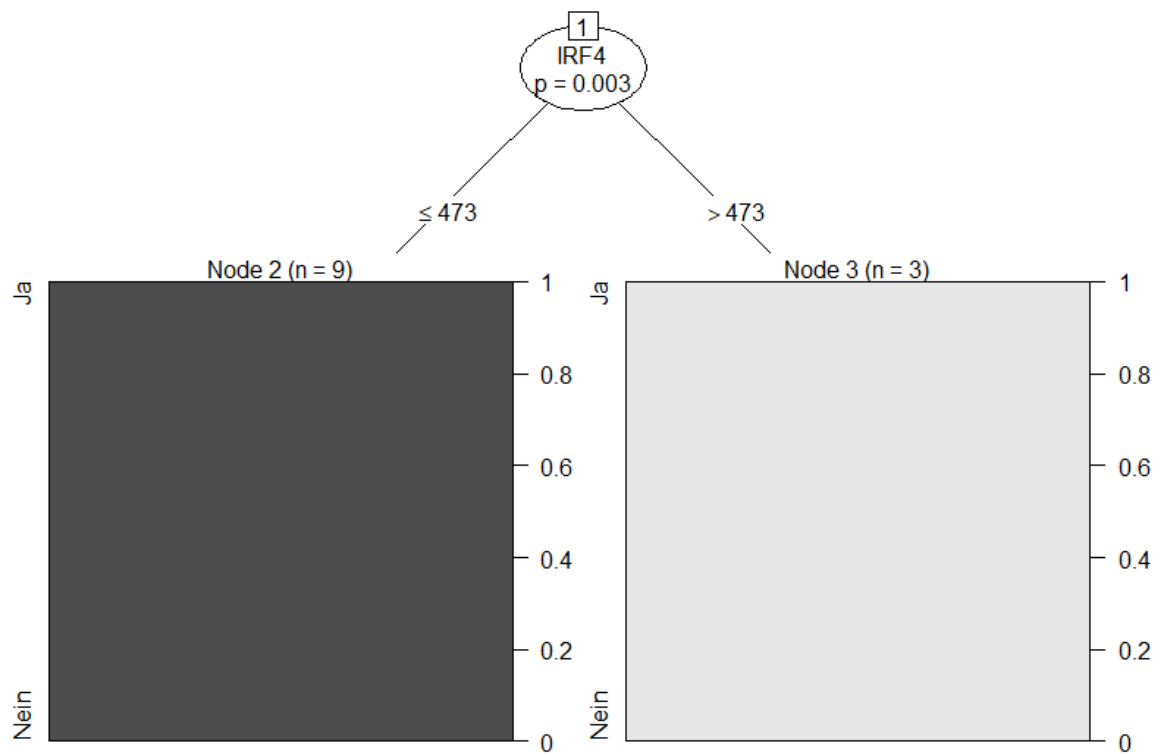


Figure S3. Also for IgG4-ROD, CIT revealed a one-tier system based on *IRF4* expression, with the appertaining cut-off of >473 counts identifying IgG4-ROD cases.