

Alpha Beta Double-Negative T Cells for
Autoimmune Lymphoproliferative Syndrome, Blood

Patient ID SAMPLE	Patient Name PATIENT, TEST	Birth Date 1990-08-02	Sex U	Age 33
Order Number SAMPLE	Client Order Number SAMPLE	Ordering Physician SAMPLE	Report Notes Sample Report	
Account Information SAMPLE		Collected 01 Aug 2024 15:32		

ALPS Screen

%alpha/beta- TCR DNT



6.5 %CD3 T cells

High

SDI

Reference Value
<3.0

alpha/beta- TCR DNT



49 cells/mcL

High

SDI

Reference Value
<35

% TCR+DNT B220+



1.2 % CD3 T cells

High

SDI

Reference Value
<0.3

Absolute TCR+DNT B220+



9 cells/mcL

High

SDI

Reference Value
<6

Interpretation

1 SDI

Increased frequency (%) and absolute count of abTCR+ DNT cells and these cells are positive for B220 expression. This result

appears to support a diagnosis of Autoimmune Lymphoproliferative Syndrome (ALPS). However, the flow cytometric assay quantifying the % and absolute counts of alpha-beta TCR+ DNT cells and DNT B220+ T cells is to be used only as a screening assay for ALPS and cannot be considered a confirmatory diagnostic test. Abnormal results should be confirmed by correlating clinical history along with in vitro assessment of apoptosis defects (available at Cincinnati Childrens' Hospital) and/or genetic testing for the relevant gene mutations (ALPS Type 0 (homozygous germline FAS mutations), Type 1a (heterozygous germline FAS mutations), Type 1m (somatic FAS mutations), Type 1b (germline FASLG - Fas ligand mutations), Type 11a (germline CASP10 - caspase 10 mutations), Type III (unknown genetic defect)). Genetic testing is available at Cincinnati Childrens Hospital or Gene Dx). Unable to provide further interpretation without clinical history. Clinical correlation recommended.

ADDITIONAL INFORMATION

New reference values will be used for the ALPS assay. In addition, a marker - B220 that improves the specificity of the assay has been included along with the evaluation of alpha-beta TCR+ DNT cells. Changes in reporting effective 05/28/2008.

Received: 02 Aug 2024 15:27

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Laboratory Notes

- 1 Analyte Specific Reagent: This test was developed and its performance characteristics determined by Mayo Clinic. It has not been cleared or approved by the U.S. Food and Drug Administration.

Performing Site Legend

Code	Laboratory	Address	Lab Director	CLIA Certificate
SDI	Mayo Clinic Laboratories - Rochester Superior Drive	3050 Superior Drive NW, Rochester MN 55905	Nikola Baumann Ph.D.	24D1040592