

Client: Example Client ABC123
123 Test Drive
Salt Lake City, UT 84108
UNITED STATES

Physician: Doctor, Example

Patient: Patient, Example

DOB: 6/10/1999
Gender: Female
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
Collection Date: 00/00/0000 00:00

Regulatory T-Cell Panel, FOXP3

ARUP test code 3002249

TREGS CD4+CD25+FoxP3+CD127- % **0.9 % of CD4 L (Ref Interval: 1.0-7.0)**

TREGS CD4+CD25+FoxP3+CD127- **2 cells/uL L (Ref Interval: 8-48)**

INTERPRETIVE INFORMATION: Regulatory T-Cells (TREG) FoxP3

Regulatory T cells (Tregs) suppress the immune response, predominately through the transcription factor FOXP3. The major Treg population is CD4+, CD25+, CD127- with expression of intracellular FOXP3. Decreased Tregs occur in autoimmune disorders including allergy and asthma. Low numbers or compromised function of Tregs are found in graft vs host disease following bone marrow transplantation. Increasing Tregs is a potential cell therapy and decreasing Tregs may enhance immune surveillance of cancer cells. Monitoring Tregs may reflect the mechanism of disease and can assess the efficacy of treatment.

Severe FOXP3 compromise identified by low or absent Tregs is characteristic of the IPEX syndrome, which stands for Immune dysregulation, Polyendocrinopathy, Enteropathy, and X-linked syndrome. However, some FOXP3 mutations may completely inhibit function, yet still allow detection of the intracellular protein by immunologic methods, so absent Tregs by flow cytometry is sufficient, but not necessary for diagnosis.

Please note, reference intervals were established using normal adult donors aged 19 years and older. Therefore, clinical correlation of the results in pediatric patients is recommended.

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

H=High, L=Low, *=Abnormal, C=Critical

VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
TREGS CD4+CD25+FoxP3+CD127- %	22-340-402161	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
TREGS CD4+CD25+FoxP3+CD127-	22-340-402161	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00

END OF CHART

H=High, L=Low, *=Abnormal, C=Critical

Unless otherwise indicated, testing performed at:

ARUP LABORATORIES | 800-522-2787 | aruplab.com
500 Chipeta Way, Salt Lake City, UT 84108-1221
Jonathan R. Genzen, MD, PhD, Laboratory Director

Patient: Patient, Example
ARUP Accession: 22-340-402161
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
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