

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

Physician: Doctor, Example

**Patient: Patient, Example**

**DOB:** 7/9/1970  
**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- % 1.0 % of CD4 (Ref Interval: 1.0-7.0)

TREGS CD4+CD25+FoxP3+CD127- 10 cells/uL (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- %	22-333-401996	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
TREGS CD4+CD25+FoxP3+CD127-	22-333-401996	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: 22-333-401996  
Patient Identifiers: 01234567890ABCD, 012345  
Visit Number (FIN): 01234567890ABCD  
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