Lab Dept: Chemistry

Test Name: INTERLEUKIN-2 RECEPTOR

General Information

Lab Order Codes:	IL2R
Synonyms:	IL 2 Receptor, Soluble (CD25)
CPT Codes:	83520 – Immunoassay for analyte other than infectious agent antibody or infectious agent antigen; quantitative, not otherwise specified
Test Includes:	Interleukin-2 Receptor level reported in pg/mL.

Logistics

Test Indications:	Clinical conditions in which elevated soluble IL-2R levels are detected include AIDS, autoimmune disease, sarcoidosis, and a variety of leukemias and lymphomas. In HIV positive individuals, IL-2R is elevated during the asymptomatic phase as well as during persistent generalized lymphadenopathy and symptomatic phases. IL-2R detection may be useful in measuring T cell activation and monitoring HIV pathogenesis. Elevated IL-2R levels have clinical and prognostic significance in patients with malignant lymphoma, non-Hodgkin's lymphoma, B cell and undifferentiated lymphomas.
Lab Testing Sections:	Chemistry - Sendouts
Referred to:	Mayo Clinic Laboratories forward to ARUP (MML Test: FIL2S), (ARUP Test: 0051529)
Phone Numbers:	MIN Lab: 612-813-6280 STP Lab: 651-220-6550
Test Availability:	Daily, 24 hours
Turnaround Time:	3 - 6 days
Special Instructions:	Separate specimens must be submitted when multiple tests are ordered.

Specimen

Specimen Type:	Blood
Container:	SST (Gold, marble or red)

Draw Volume:	3 mL (Minimum: 1.2 mL) blood
Processed Volume:	1 mL (Minimum: 0.4 mL) serum/plasma
Collection:	Routine venipuncture
Special Processing:	Lab Staff: Centrifuge specimen and separate serum/plasma within 2 hours of collection; aliquot into a screw-capped round bottom plastic vial. Store and ship at frozen temperatures. Forward promptly.
Patient Preparation:	None
Sample Rejection:	Mislabeled or unlabeled specimens; refrigerated specimens; contaminated or heat-inactivated specimens

Interpretive

Reference Range:	175.3 – 858.2 pg/mL
Critical Values:	N/A
Limitations:	Cytokine levels may demonstrate diurnal variation. For longitudinal comparison, it is recommended that cytokine levels be determined at the same time of day. Results are to be used for research purposes or in attempts to understand the pathophysiology of immune, infectious or inflammatory conditions.
Methodology:	Quantitative Multiplex Bead Assay
References:	Mayo Clinic Laboratories Web Page May 2020 ARUP Laboratories May 2020
Updates:	3/18/2004: Test moved from Specialty Laboratories to Mayo Medical Laboratories forward to Focus Technologies. Note changes in CPT code, Methodology, and reference range. 9/16/2008: CPT update, previously reported at 83520 12/16/2013: MML now forwards to ARUP. Note change in CPT (previously 84238), method and reference ranges. 2/19/2014: Ref range update, previously listed as 0-1033 pg/mL. 9/18/2017: Update tube types. 5/18/2020: Updated ref range and minimum volume requirements.