

Immunological Diagnostics Laboratory

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Detailed patient data

Family name, First name, Date of birth, Clinic

Sender (stamp)

Signature

1. Diagnosis: _____

2. Medication: _____

3. IgG-Substitution: ☐ i.v. ☐ s.c. ☐ none Date of latest substitution:

Lymphocytes

Please provide absolute numbers of a differential blood count from the blood sample sent for testing.

Quantitative lymphocyte analysis

EDTA-blood

- ☐ T-, B-, NK-cells (CD3, CD19, CD16/56)
- ☐ B-cell subpopulations (IgD, IgM, CD27, CD21, CD38)
- ☐ Recent thymic emigrants (CD4, CD31, CD45RA)
- ☐ Double negative T-cells (TCR $\alpha\beta$, TCR $\gamma\delta$, CD4, CD8)
- ☐ Naive and memory T-cells (CD4, CD8, CD45RA, CD45RO, CCR7)
- ☐ Regulatory T-cells (CD4, CD25, FOXP3)
- ☐ TH17 T-cells (induced IL-17)
- ☐ Natural killer-T-cells (V α 24, V β 11)
- ☐ Mucosal-associated invariant T-cells (CD161, V α 7.2)

Additional special testing

EDTA-blood

- ☐ Lymphocyte proliferation (CD3, CD3/CD28, PMA/Iono)
- ☐ TCRVbeta-repertoire (CD4, CD8)
- ☐ Resting and stimulated NK-cell-degranulation (CD107a)
- ☐ Stimulated CTL-degranulation (CD107a)
- ☐ γ c-SCID-screening (pSTAT5)
- ☐ IL10R-screening (pSTAT3)
- ☐ STAT1 GOF-screening (pSTAT1)
- ☐ FAS-ligand-induced apoptosis
- ☐ XIAP functional testing (MDP-stimulation)

Single Protein Expression

EDTA-blood

- ☐ BTK-expression
- ☐ CARMIL2-expression
- ☐ CD40-ligand and CD40-expression
- ☐ CTLA4 on regulatory T-cells
- ☐ DOCK8-expression
- ☐ HLA-class-I-expression
- ☐ HLA-class-II-expression
- ☐ ITK-expression
- ☐ LRBA-expression
- ☐ Perforin-expression
- ☐ SAP-expression
- ☐ WASP-expression
- ☐ XIAP-expression

Granulocytes

EDTA-blood

- ☐ Dihydrorhodamine-test (DHR, oxidative burst)
- ☐ Myeloperoxidase (MPO) activity
- ☐ Flavocytochrome b558-expression (7D5 antibody)
- ☐ Adhesion proteins (CD11/CD18)
- ☐ CD62L-shedding

Immunoglobulins and antibodies

Serum

- ☐ IgG-subclasses, quantitative
- ☐ IgA-subclasses, quantitative
- ☐ Diphtheria-toxoid ☐ H. influenzae type b
- ☐ Tetanus-toxoid ☐ Pneumococcus

Saliva – special tube

- ☐ Secretory IgA

Genetics (Hauner Research NGS-Facility)

EDTA-blood

- ☐ Sanger-single-gene-sequencing
- Gene:

- ☐ Exome sequencing
- ☐ Genome sequencing

Genetics only after individual counseling and written informed consent.

Important information:

Please contact the laboratory always before drawing and sending blood. Phone: + 49 (0)89 4400 52831

Special testing must be scheduled 1-2 weeks prior to analysis via phone or email.

For external testing: Please provide health insurance coverage or payment modalities. Please send a medical report. You can find the testing menu and the informed consent sheet for genetic testing in the download area of the Division of Pediatric Immunology and Rheumatology.

Date of blood drawing

Name and signature of responsible physician



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Blood drawing conditions

Analysis days for lymphocyte proliferation, special testing, and granulocytes

Every Tuesday and Thursday after appointment has been set up.
Blood samples must arrive in the laboratory until 11 a.m.

Blood drawing

Add blood to the EDTA-tube and gently reverse the tube 3 to five times.
Do not centrifuge or freeze the blood sample but send it immediately to the laboratory at room temperature.
During winter consider protecting the blood sample e.g., in special secondary tubes.

Please provide absolute numbers of a differential blood count from the blood sample sent for testing for the quantitative analysis.

Sample material and minimal sample volume

EDTA-whole blood

Quantitative lymphocyte analysis

1.2 ml EDTA-whole blood

Dihydrorhodamine-test (DHR)

2.6 ml EDTA-whole blood

Special testing

Please contact the laboratory.

gDNA-extraction and molecular genetics

2.6 ml EDTA-whole blood

Genetics only after individual counseling and written informed consent.

Serum

Immunoglobulins and antibodies

2.6 ml

Important notice

After transfusion (red blood cells, thrombocytes, granulocytes, stem cells, CAR T-cells), especially after substitution of immunoglobulins (SCIG, IVIG) and after immunosuppressive or cell depleting treatments (steroids, CSA, tacrolimus, MMF, sirolimus, rituximab, alemtuzumab, daratumumab, etc.) the performance and interpretation of tests can be limited or impossible. We therefore ask for detailed information and pre-testing discussion to provide you with the most reliable results.

Blood samples from external senders

In addition to the patient samples, please provide a 7.5 ml blood samples as a travel control from a healthy adult. Please equally adhere to the blood drawing and sample material conditions.

Shipping time point for lymphocyte proliferation

Express shipping preferably on Monday or when indicated on Wednesday to allow for sample testing on the next day that would be Tuesday or when indicated Thursday.

Shipping time point for granulocytes

Blood samples must be drawn the very same day as the testing is scheduled for and has to arrive in the laboratory until 11 a.m. Shipping should therefore be done by taxi, fast train or airplane and supervised by a courier.

Please provide health insurance coverage or payment modalities.

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