October 26th, 2026

New Test: CD107a Cytotoxic Lymphocyte Exocytosis Assay (CLEA), Test #LAB00726

Dear Cincinnati Children's, CBDI Clinical Laboratory Clients:

Please note that this is a reminder regarding an update to the CD107a NK Degranulation test.

We are pleased to inform you of an upcoming test change for the CD107a NK Cell Degranulation (Test # 2905400). This will be replaced by **CD107a Cytotoxic Lymphocyte Exocytosis Assay (CLEA): Test# LAB00726** on **Tuesday, October 27, 2026**. The new test price is $840/sample. Please see attached revised test requisition and price list, along with a guide for ensuring sufficient sample is obtained for all of our functional assays.

This flow cytometric assay is intended to determine surface upregulation of CD107a as an indicator of degranulation of CD3-CD56+ natural killer (NK) cells after stimulation with K562 cells and anti-CD16-coated target cells. New test changes are found below.

New Test Details:

- New testing advantage: implementation of magnetic mononuclear cell isolation significantly reduces red blood cell contamination and increased cellular recovery.

- New test information: Degranulation is assessed by measuring CD107a upregulation on CD3-CD56+ natural killer (NK) cells and is reported as the percentage of CD107a positive and CD107a bright NK cells following stimulation with K562 cells and anti-CD16–coated target cells. Stimulation with K562 target cells assesses natural NK cell cytotoxic function, while stimulation with anti-CD16-coated targets evaluates antibody dependent cellular cytotoxicity (ADCC).

- New reporting changes:

CD107a NK Cell Degranulation (Test # 2905400)	**New CD107a CLEA** (Test # LAB00726)
CD107a % NK CD107a MCF	Degranulation induced by K562 target cells %CD107a NK cells %CD107a bright NK cells Degranulation induced by anti-CD16 antibody %CD107a NK cells %CD107a bright NK cells

The *%CD107a* value represents the proportion of NK cells demonstrating degranulation after subtraction of background signal from the unstimulated control. The *%CD107a bright* identifies the percentage of NK cells with robust degranulation, defined by a fluorescence intensity threshold set at 15 standard deviations above the median fluorescence intensity (MFI) of the unstimulated control.

- CPT Codes: 88184, 88185 x 4, 88187

New Specimen Requirements:

Specimen Collection:
Blood in 6mL Dark Green Sodium Heparin (NaHep) for normal absolute lymphocyte count (ALC). *Refer to DIAGNOSTIC IMMUNOLOGY LAB (DIL) SPECIMEN COLLECTION GUIDE found alongside test requisition.*

Collect only Mon-Wed. Samples must be strictly received at Burnet lab by Thursday

Stability: Room temperature and received within 30 hours from collection

Shipping/Handling Instructions:
Refer to DIAGNOSTIC IMMUNOLOGY LAB (DIL) SPECIMEN COLLECTION GUIDE found alongside test requisition. This test requires a specific lymphocyte count instead of certain sample volume. A patient's absolute lymphocyte count (ALC) is representative of the number of lymphocytes in a certain volume of blood and is usually part of a complete blood count with differential (CBC with Diff).

Sample should be shipped at room temperature only. Must be received in lab within 24-30 hours of collection. Blood samples must be strictly collected Monday through Wednesday for outside clients since testing is only performed by the CBDI DIL Laboratory from Tuesday through Thursday, 8:00am to 5:00pm (EST).

Testing is not performed and samples cannot be received on Fridays, weekends/certain holidays. First Overnight shipping is strongly recommended. Please send tacking information by phone (513-636-4685) or fax (513-636-3861) to ensure package receipt.

Result Reporting:
Turnaround Time (TAT): Approximately **8 business days** from specimen receipt

The test requisition will be updated accordingly. Refer to our Lab Test Directory for detailed and up-to-date specimen collection requirements that will be published on **October 27, 2026.**
If you have any questions or need further clarification, please do not hesitate to contact the CBDI Clinical Laboratories at (513) 636-4685 or at CBDILabs@cchmc.org

Thank you for choosing the CBDI Clinical Laboratories for your testing needs.

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