

PHYSICIAN	SAMPLE, PHYSICIAN	
	ONCOLOGY HOSPITAL	
	ACCT #:	
	P:	F:

PATIENT	SAMPLE, PATIENT		
	DOB:	Age:	Sex:
	Ethnicity:		
	Surgical #:		
	Patient ID:		
	Address:		

SAMPLE	Specimen ID:
	Date Reported: 07/14/2023 3:29 PM
	Date Collected: 07/06/2023 Time Unknown
	Date Received: 07/07/2023 6:27 AM
	Source: Peripheral blood
	Clinical Information: CLL/SLL

OnkoClone CLL MRD

RESULTS

ONKOCLONE CLL MRD: MRD DETECTED

Mutation Rate: 5.29%

IgVH Family: IgVH3-74_03

% total reads: 18.891%

Initial TM70% Total Reads: 33.52%

INTERPRETIVE INFORMATION

This test contains primers that amplify DNA in the conserved framework (FR1) and joining (J) regions within the immunoglobulin heavy chain (IgH) gene on chromosome 14. These regions are within the V-J region, where programmed genetic rearrangements occur during B-cell maturation. Each B-cell has a V-J rearrangement that is unique in both length and sequence. This assay is useful in monitoring for residual B-cell lymphoma following therapy. A small clonal B-cell population present in numbers below the lower limit of detection of this assay may also not be detected. Therefore, this result should be interpreted in the context of all other laboratory, histological, and clinical information. The lower limit of detection of this assay is 2.5%.

METHODOLOGY

Extracted genomic DNA from whole blood or bone marrow specimens is amplified by polymerase chain reaction (PCR) using indexed primers from the LymphoTrack[®] IGH Assay reagents from Invivoscribe (San Diego, CA). These primers target the conserved framework 1 (FR1) region within the VH segments of the IGH gene. IGH Amplicons are purified, pooled and subsequently sequenced on an Illumina MiSeq instrument (San Diego, CA). Sequencing data is then analyzed using the LymphoTrack[®] Software for MiSeq to identify clonal VH - JH rearrangements and the associated VH - JH region DNA sequences. The clonal sequences previously identified are compared to the current sample using the LymphoTrack[®] MRD Software. The clonal sequences previously identified are compared to the current sample using the LymphoTrack[®] MRD Software.

REFERENCES

1. Bagg, A, Braziel RM, Arber DA, et al. Immunoglobulin Heavy Chain Gene Analysis in Lymphomas. Journal of MolecularDiagnostics 4(2):81-89, 2002.
2. Arcila ME, Yu W, Syed M, Kim H, Maciag L, Yao J, Ho C, Petrova K, Moug C, Salazar P, Rijo I, Baldi T, Zehir A, Landgren O, Park J, Roshal M, Dogan A, Nafa K. Establishment of Immunoglobulin Heavy (IGH) Chain Clonality Testing by Next-Generation Sequencing for Routine Characterization of B-Cell and Plasma Cell Neoplasms. J Mol Diagn. 2019 Mar;21(2):330-342. doi: 10.1016/j.jmoldx.2018.10.008. Epub 2018 Dec 25. PMID: 30590126; PMCID: PMC6436112.
3. Fält Susann, Merup Mats, Tobin Gerard, Thunberg Ulf, Gahrton Gösta, Rosenquist Richard, Wennborg Anders; Distinctive gene expression pattern in VH3-21 utilizing B-cell chronic lymphocytic leukemia. Blood 2005; 106 (2): 681–689. doi: https://doi.org/10.1182/blood-2004-10-4073
4. Ghia P, Stamatopoulos K, Belessi C, et al. ERIC recommendations on IGVH gene mutational status analysis in chronic lymphocytic leukemia. Leukemia 21: 1-3, 2007.
5. Tonegawa, S. (1983). Somatic Generation of Antibody Diversity. Nature. 302, 575-581.
6. Trainor, K.J., et al. (1990) Monoclonality in B-lymphoproliferative disorders detected at the DNA level. Blood. 75, 2220-2222.
7. Invivoscribe®, Instructions for Use: LymphoTrack[®] IGH (FR1/FR2/FR3) Assays - MiSeq®, 280377 Rev. I, January 2019
8. Invivoscribe®, Instructions for Use: LymphoTrack[®] Dx IGH (FR1/FR2/FR3) Assays - MiSeq®, 280389 Rev. G, June 2020
9. Invivoscribe®, Instructions for Use: LymphoTrack[®] MRD Software, 280364 Rev. G, July 2021.

PHYSICIAN	SAMPLE, PHYSICIAN	
	ONCOLOGY HOSPITAL	
	ACCT #:	
	P:	F:

PATIENT	SAMPLE, PATIENT		
	DOB:	Age:	Sex:
	Ethnicity:		
	Surgical #:		
	Patient ID:		
	Address:		

SAMPLE	Specimen ID:
	Date Reported: 07/14/2023 3:29 PM
	Date Collected: 07/06/2023 Time Unknown
	Date Received: 07/07/2023 6:27 AM
	Source: Peripheral blood
Clinical Information: CLL/SLL	

OnkoClone CLL MRD

This test was developed and its performance characteristics were determined by GenPath, a division of BioReference Health, LLC. It has not been cleared or approved by the U.S. Food and Drug Administration (FDA). The FDA has determined that such clearance or approval is not necessary. This lab has been approved by CLIA'88 and designated as a high complexity laboratory and is qualified to perform this test. Pursuant to the requirements of CLIA'88, this laboratory has established and verified the test's accuracy and precision. However, a false positive or false negative result incurred during any phase of the testing cannot be completely excluded. This assay does not detect all clonal cell populations. These results may be used for clinical or research purposes and therefore should be carefully considered within the context of other clinical and laboratory data. The information contained in this report reflects the current interpretation of the findings as of the date of the report, based on the available scientific information. This information, which comes from numerous sources, is subject to change over time in response to future scientific and medical findings and correlations. BioReference Health, LLC makes no representation or warranty of any kind regarding the accuracy of information provided or contained in these manuscripts, references or other sources of information. If any of the information provided by or contained in the referenced material is later deemed to be inaccurate, this may impact the accuracy of this report and interpretation of the findings. BioReference Health, LLC is not obligated to notify you of any impact that additional or modified information, or future scientific or medical research may have on this report. The laboratory is not responsible for reanalysis of the data or updated classification of this report or past reports' findings as the knowledge evolves. A medical provider can request a reassessment of clinical significance of variants and/or re-review of the clinical interpretation of the findings. Additional charges may apply for the updated report. This assay has been conditionally approved by the NYSDOH based on initial validation. Please contact the laboratory for more information if an update is requested.

Sample