

MYD88 L265P Somatic Gene Mutation Analysis

Effective Date: March 6, 2018

Beaumont Laboratory is offering the MYD88 L265P Somatic Gene Mutation Analysis effective March 6, 2018.

Clinical Utility:

- The MYD88 L265P mutation is **frequently (>90%)** detected in lymphoplasmacytic lymphoma/Waldenström macroglobulinemia and a significant proportion of patients with IgM monoclonal gammopathy of undetermined significance.
- The MYD88 L265P mutation is **infrequently** detected in chronic lymphocytic leukemia, gastric-associated lymphoid tissue lymphoma, marginal zone lymphoma and diffuse large B-cell lymphoma (activated B-cell type).
- The MYD88 L265P mutation is **absent** in plasma cell myeloma, including IgM myeloma.

Test Summary:

Order Code: EPIC: LAB7107 SOFT: GMYDG
CPT Code: 81479
Sources: Blood, Bone Marrow
Schedule: Testing will be performed once per week.
Sensitivity: Test sensitivity = 0.50% mutation in a wild-type background.

References:

1. Treon SP, *et al.* MYD88 L265P somatic mutation in Waldenström's macroglobulinemia. *N Engl J Med* 2012;367:826-833.
2. Varettoni M, *et al.* Prevalence and clinical significance of the MYD88 (L265P) somatic mutation in Waldenström's macroglobulinemia and related lymphoid neoplasms. *Blood* 2013;121:2522-2528.
3. Xu L, *et al.* MYD88 L265P in Waldenström macroglobulinemia, immunoglobulin M monoclonal gammopathy, and other B-cell lymphoproliferative disorders using conventional and quantitative allele-specific polymerase chain reaction. *Blood* 2013;121:2051-2058.
4. Ondrejka SL, *et al.* MYD88 L265P somatic mutation: its usefulness in the differential diagnosis of bone marrow involvement by B-cell lymphoproliferative disorders. *Am J Clin Pathol* 2013;140:387-394.

If you have questions, please contact Client Services (1-800-551-0488, option 5).

Laboratory Test Directory: <http://beaumontlaboratory.com/test-lab-directory>.

Date submitted: February 05, 2018

Submitted by: Bobby Boyanton, MD, Medical Director, Molecular Pathology

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