

## MYD88/CXCR4 Testing

**Hematologies ΔN:™** (Difference from Normal) *Flow Cytometry* followed by *Flow Cytometric Cell Sorting* (FACS) of Plasma and Lymphoid cells increases the specificity of MYD88 L265P detection by 33% allowing for a more accurate diagnosis of Waldenström's/Lymphoplasmacytic Lymphoma.

- MYD88 L265P is not restricted to an LPL/WM diagnosis, it can also be found in IgM monoclonal gammopathy of undetermined significance or Splenic Marginal Zone Lymphoma and other B-cell chronic lymphoproliferative disorders.
- A confirmed diagnosis of WM/LPL has MYD88 L265P mutations in both Lymphoid and Plasma cell populations.
- Magnetic Beads cannot be used because it does not give a pure enough sample.
- **Hematologies FACS of Plasma and Lymphoid cells increases the sensitivity of CXCR4 detection by 63%**
- A mutation in CXCR4 may promote resistance to Ibrutinib, a Bruton's tyrosine inhibitor used in the treatment of WM.

### MYD88 p.L265P analysis in B-cell (BC) vs plasma cell (PC) fractions



