

Immunoglobulin Light Chain Kappa/Lambda Detection

Indication for Use: Demonstration of monoclonal plasma cells in histologic sections by determination of immunoglobulin (Ig) light chain restriction is often necessary in diagnosis of plasma cell dyscrasias such as multiple myeloma and plasmacytoma.

In addition to evaluating biopsies in the setting of plasma cell dyscrasias, establishing Ig light chain restriction in paraffin sections can be helpful in the diagnosis of B cell non-Hodgkin lymphomas.

Testing Method: The Ventana's Immunoglobulin kappa and lambda (Ig κ/λ) *in situ* hybridization (ISH) system is designed for the detection of human kappa and lambda immunoglobulin light chain messenger RNA (mRNA) in tissue sections and blood and bone marrow smears.

The system uses biotin-labeled oligonucleotide probes. The probe-mRNA duplex is indirectly detected using an enzyme-conjugated antibody targeting the biotin conjugate. For color development, a chromogenic substrate is added. Enzymatic reaction of the chromogenic substrate leads to the formation of a color precipitate that is visualized by light microscopy.

Turnaround Time: 3-5 business days

Sample requirements:

- Paraffin-embedded tissue
- Tissue sections on charged glass slides

CPT Codes: 88342, 83896

Ship Specimens to:

Henry Ford Center for Precision Diagnostics
Henry Ford Hospital
Clinic Building, K6, Core Lab E-655
2799 W. Grand Blvd.
Detroit, MI 48202