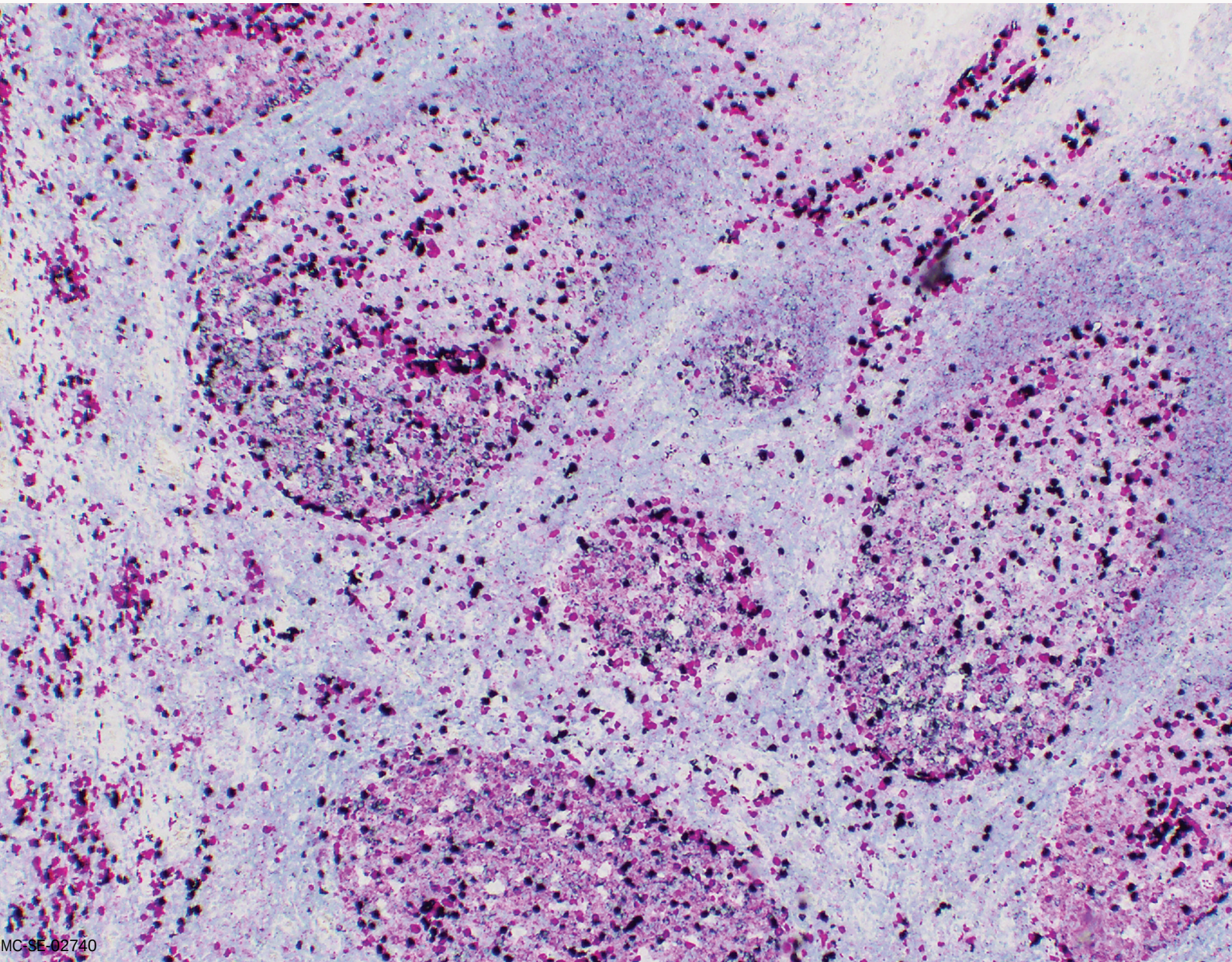
VENTANA®

Roche

VENTANA® Kappa and Lambda Dual ISH mRNA Probe Cocktail

Driving diagnostic certainty for life-changing decisions in hematopathology



MC-SE-02740

VENTANA® Kappa and Lambda Dual ISH mRNA Probe Cocktail

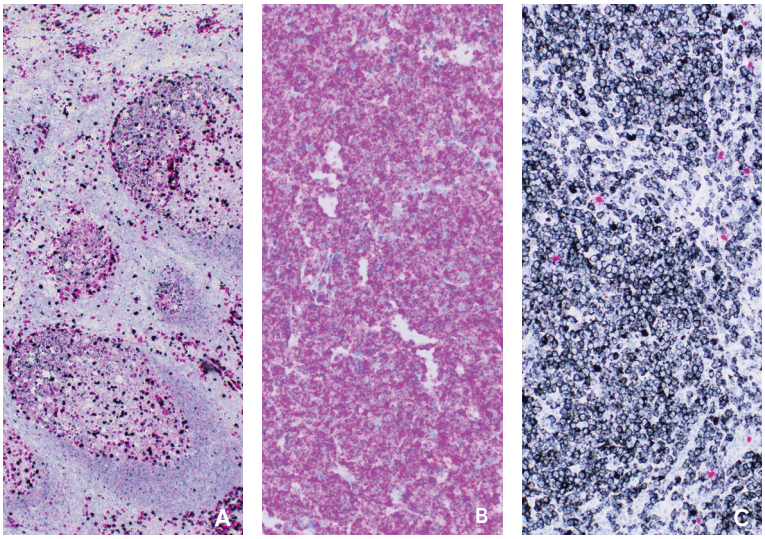
VENTANA Kappa and Lambda Dual ISH is a dual color assay with sensitivity that enables clonality assessment across all B-cell lymphoma subtypes and plasma cell neoplasms.

Evaluation of B-cell clonality is a useful aid in the diagnosis of suspected B-cell and plasma cell neoplasms. Clinical presentation of lymphomas and benign reactive processes can be similar. Kappa and Lambda clonality assessment helps to differentiate between the two and can help to avoid misdiagnosis.[1] A commonly used method for determining B-cell clonality involves the assessment of kappa and lambda light chain expression in FFPE tissue.[2]

Expression levels of kappa and lambda light chains in normal B-cells and B-cell neoplasms depend greatly on the stage of differentiation, and many available assays have limited utility due to insufficient sensitivity to the lower ranges of expression.[3] The VENTANA Kappa and Lambda Dual ISH mRNA Probe Cocktail is intended to provide ultra sensitive and dynamic detection for both kappa and lambda light chain mRNA on a single FFPE slide, **expanding the clinical utility** to B-cells in all stages of maturation and **across all B-cell lymphoma subtypes and plasma cell neoplasms.**[2]

Intended use:

VENTANA Kappa and Lambda Dual ISH mRNA Probe Cocktail is intended for the qualitative detection of Kappa mRNA and Lambda mRNA in formalin fixed, paraffin-embedded (FFPE) human bone marrow and lymphoid tissue stained on a BenchMark IHC/ISH instrument using chromogenic in situ hybridization (ISH) and visualized using light microscopy. VENTANA Kappa and Lambda Dual ISH mRNA Probe Cocktail is intended as an aid in the identification of B-cell lymphomas and plasma cell neoplasms. Results of the assay should be interpreted by a qualified pathologist in conjunction with histological examination, relevant clinical information, and proper controls. This product is intended for in vitro diagnostic (IVD) use.[4]



VENTANA Kappa and Lambda Dual ISH mRNA expression patterns in tonsil
(Panel A): Non-restricted/polyclonal
(Panel B): Kappa restricted/monoclonal
(Panel C): Lambda restricted/monoclonal

Ordering information

Product name	Catalog number	Ordering code	Quantity
VENTANA Kappa and Lambda Dual ISH mRNA Probe Cocktail	800-6054	08507023001	30 tests
VENTANA Magenta ISH DIG Detection Kit	760-514	08507201001	60 tests
VENTANA Silver ISH BF Detection Kit	760-513	08507031001	60 tests

VENTANA Kappa and Lambda Dual ISH mRNA Probe Cocktail is classified as Class C IVD per the classification rules laid out in EU 2017/746 (IVDR).

References

[1] Kanderi, et al. Int. J. Hematol. Oncol. (2020) 9(2), IJH26.

[2] Rimsza LM, et al. Kappa and lambda light chain mRNA in situ hybridization compared to flow cytometry and immunohistochemistry in B cell lym-phomas. Diagn Pathol. 2014 Jul 21;9:144. doi: 10.1186/1746-1596-9-144. PMID: 25047073; PMCID: PMC4223387.

[3] Segal GH, et al. In situ hybridization analysis of lymphoproliferative disorders. Assessment of clonality by immunoglobulin light-chain messenger RNA expression. Diagn Mol Pathol. 1994 Sep;3(3):170-7. PMID: 7981892.

[4] F. Hoffmann-La Roche Ltd. VENTANA Kappa and Lambda Dual ISH mRNA Probe Cocktail. [Package Insert; cited 2024 April 16]. Data on file.

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